



FROM PROFESSIONAL TO PROFESSIONAL, FROM PERSON TO PERSON



General catalogue

2008



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CRADY



NEW



Miniature Fuses - Glass Body - Fast Acting.

Item	Code	EAN 13	Package
ZR 5x20 GLASS of 0,5 A	0105000	8426487024377	100
ZR 5x20 GLASS of 1 A	0105001	8426487024384	100
ZR 5x20 GLASS of 1,6 A	0105002	8426487024391	100
ZR 5x20 GLASS of 2 A	0105003	8426487024407	100
ZR 5x20 GLASS of 2,5 A	0105004	8426487024414	100
ZR 5x20 GLASS of 3 A	0105005	8426487024421	100
ZR 5x20 GLASS of 3,15 A	0105006	8426487024438	100
ZR 5x20 GLASS of 4 A	0105007	8426487024445	100
ZR 5x20 GLASS of 5 A	0105008	8426487024452	100
ZR 5x20 GLASS of 6 A	0110509	8426487024438	100
ZR 5x20 GLASS of 6,3 A	0105010	8426487024476	100
ZR 5x20 GLASS of 8 A	0105011	8426487024483	100
ZR 5x20 GLASS of 10 A	0105012	8426487024490	100
ZR 5x20 GLASS of 12 A	0105013	8426487024506	100
ZR 5x20 GLASS of 16 A	0105014	8426487024513	100
ZR 5x20 GLASS of 20 A	0105015	8426487024520	100
ZR 6x25 GLASS of 2 A	0105016	8426487024537	100
ZR 6x25 GLASS of 4 A	0105017	8426487024544	100
ZR 6x25 GLASS of 6 A	0105018	8426487024551	100
ZR 6x25 GLASS of 10 A	0105019	8426487024568	100
ZR 6x25 GLASS of 16 A	0105020	8426487024575	100
ZR 6x25 GLASS of 20 A	0105021	8426487024582	100
ZR 6x32 GLASS of 0,5 A	0105022	8426487024599	100
ZR 6x32 GLASS of 1 A	0105023	8426487024605	100
ZR 6x32 GLASS of 1,6 A	0105024	8426487024612	100
ZR 6x32 GLASS of 2 A	0105025	8426487024629	100
ZR 6x32 GLASS of 2,5 A	0105026	8426487024636	100
ZR 6x32 GLASS of 3 A	0105027	8426487024643	100
ZR 6x32 GLASS of 3,15 A	0105028	8426487024650	100
ZR 6x32 GLASS of 4 A	0105029	8426487024667	100
ZR 6x32 GLASS of 5 A	0105030	8426487024674	100
ZR 6x32 GLASS of 6 A	0105031	8426487024681	100
ZR 6x32 GLASS of 6,3 A	0105032	8426487024698	100
ZR 6x32 GLASS of 8 A	0105033	8426487024704	100
ZR 6x32 GLASS of 10 A	0105034	8426487024711	100
ZR 6x32 GLASS of 12 A	0105035	8426487024728	100
ZR 6x32 GLASS of 16 A	0105036	8426487024735	100
ZR 6x32 GLASS of 20 A	0105037	8426487024742	100

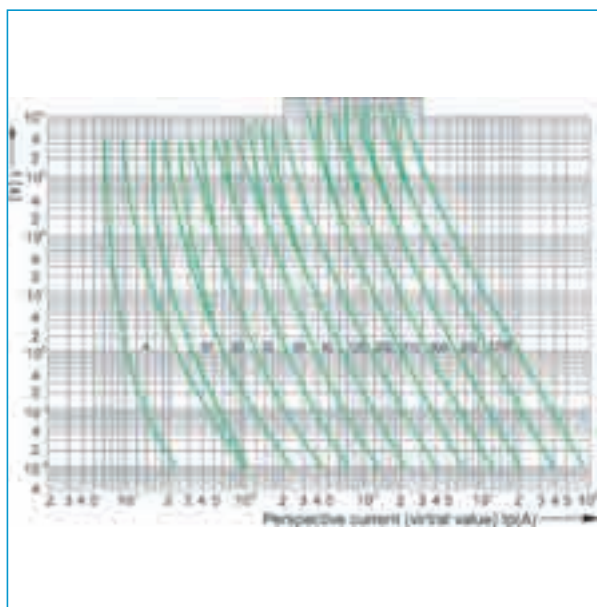
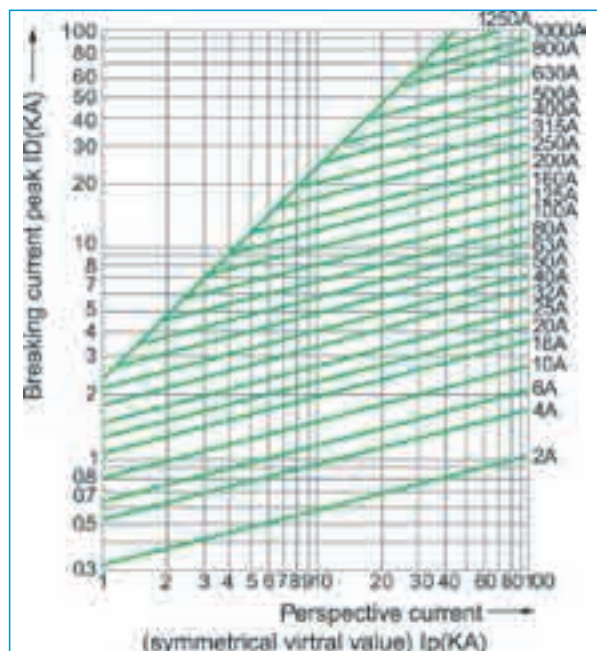
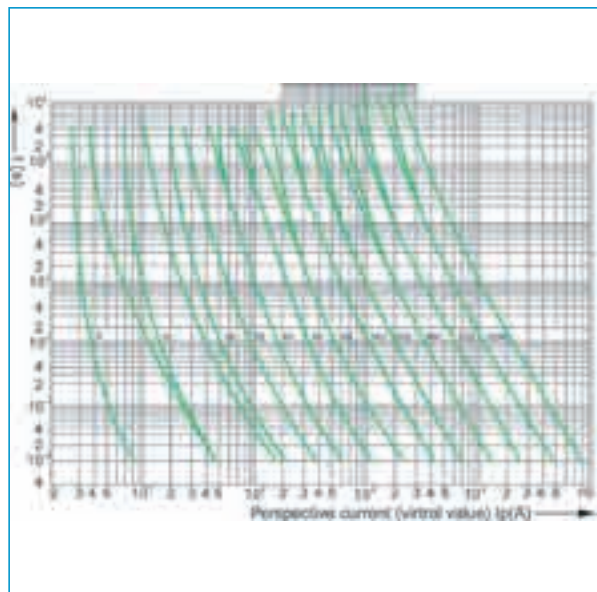


NH Fuse-Links gL - gG (500V) "Dyfus AC".

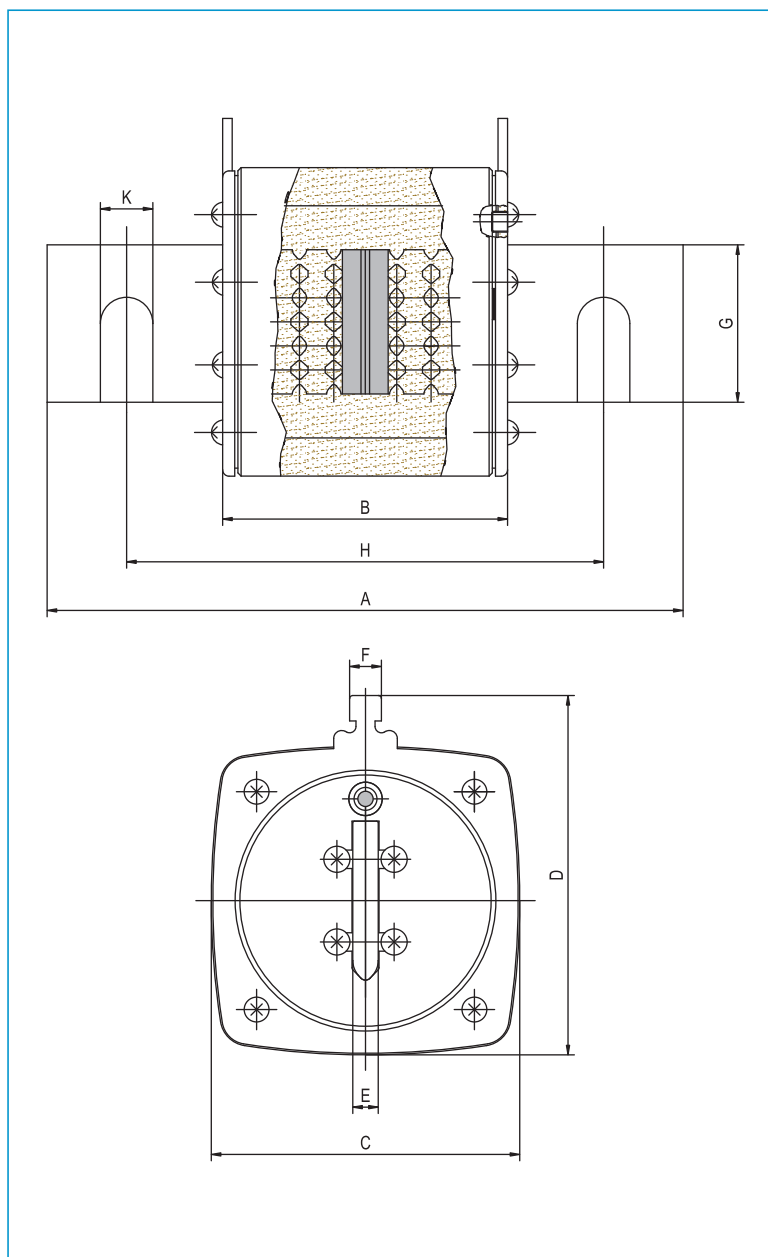
- Built according to the standards:
UNE EN 60.269-1.

Item	Code	EAN 13	Package
AC-00 of 10 A	0102022	8432710020221	3
AC-00 of 16 A	0102026	8432710020269	3
AC-00 of 20 A	0102028	8432710020283	3
AC-00 of 25 A	0102030	8432710020306	3
AC-00 of 32 A	0102032	8432710020320	3
AC-00 of 40 A	0102034	8432710020344	3
AC-00 of 50 A	0102036	8432710020368	3
AC-00 of 63 A	0102038	8432710020382	3
AC-00 of 80 A	0102040	8432710020405	3
AC-00 of 100 A	0102042	8432710020429	3
AC-00 of 125 A	0102044	8432710020443	3
AC-00 of 160 A	0102046	8432710020467	3
AC-0 of 32 A	0102060	8432710020603	3
AC-0 of 40 A	0102062	8432710020627	3
AC-0 of 50 A	0102064	8432710020641	3
AC-0 of 63 A	0102066	8432710020665	3
AC-0 of 80 A	0102068	8432710020689	3
AC-0 of 100 A	0102070	8432710020702	3
AC-0 of 125 A	0102072	8432710020726	3
AC-0 of 160 A	0102074	8432710020740	3
AC-1 of 63 A	0102088	8432710020887	3
AC-1 of 80 A	0102090	8432710020900	3
AC-1 of 100 A	0102092	8432710020924	3
AC-1 of 125 A	0102094	8432710020948	3
AC-1 of 160 A	0102096	8432710020962	3
AC-1 of 200 A	0102098	8432710020986	3
AC-1 of 250 A	0102100	8432710021006	3
AC-2 of 160 A	0102120	8432710021204	3
AC-2 of 200 A	0102122	8432710021228	3
AC-2 of 250 A	0102124	8432710021242	3
AC-2 of 315 A	0102126	8432710021266	3
AC-2 of 355 A	0102128	8432710021280	3
AC-2 of 400 A	0102130	8432710021303	3
AC-3 of 315 A	0102148	8432710021488	3
AC-3 of 355 A	0102149	8432710021495	3
AC-3 of 400 A	0102150	8432710021501	3
AC-3 of 500 A	0102152	8432710021525	3
AC-3 of 630 A	0102154	8432710021549	3
AC-4 of 630 A	0102170	8432710021709	1
AC-4 of 800 A	0102172	8432710021723	1
AC-4 of 1000 A	0102174	8432710021747	1
AC-4 of 1250* A	0102176	8432710021761	1

* Overcalibrated



Dimension

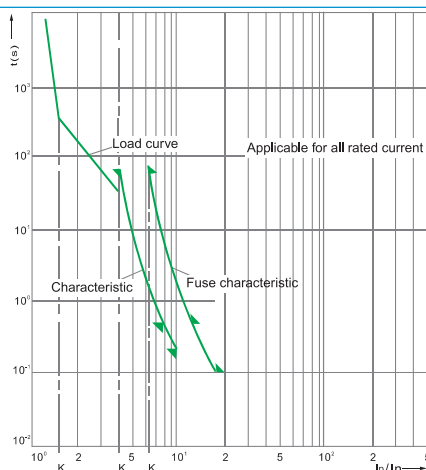


Denomination	A	B	C	D	E	F	G	H	K
AC-00	79	50.5	30	60	6	10	15	-	-
AC-0	124	67	30	60	6	10	15	-	-
AC-1	134	67	46	58.5	6	10	20	-	-
AC-2	150	68	58.5	68.5	6	10	30	-	-
AC-3	150	68	70	82	6	10	36	-	-
AC-4	200	90	97	113	8	10	49.5	150	16.5



NH Fuse-Links aM (500V) "Dyfus AC".

Item	Code	EAN 13	Package
AC-00 of 10 A	0102402	8432710024021	3
AC-00 of 16 A	0102406	8432710024069	3
AC-00 of 20 A	0102408	8432710024083	3
AC-00 of 25 A	0102410	8432710024106	3
AC-00 of 32 A	0102412	8432710024120	3
AC-00 of 40 A	0102414	8432710024144	3
AC-00 of 50 A	0102416	8432710024168	3
AC-00 of 63 A	0102418	8432710024182	3
AC-00 of 80 A	0102420	8432710024205	3
AC-00 of 100 A	0102422	8432710024229	3
AC-00 of 125 A	0102424	8432710024243	3
AC-00 of 160 A	0102426	8432710024267	3
AC-0 of 32 A	0102440	8432710024403	3
AC-0 of 40 A	0102442	8432710024427	3
AC-0 of 50 A	0102444	8432710024441	3
AC-0 of 63 A	0102446	8432710024465	3
AC-0 of 80 A	0102448	8432710024489	3
AC-0 of 100 A	0102450	8432710024502	3
AC-0 of 125 A	0102452	8432710024526	3
AC-0 of 160 A	0102454	8432710024540	3
AC-1 of 63 A	0102468	8432710024687	3
AC-1 of 80 A	0102470	8432710024700	3
AC-1 of 100 A	0102472	8432710024724	3
AC-1 of 125 A	0102474	8432710024748	3
AC-1 of 160 A	0102476	8432710024762	3
AC-1 of 200 A	0102478	8432710024786	3
AC-1 of 250 A	0102480	8432710024809	3
AC-2 of 160 A	0102500	8432710025004	3
AC-2 of 200 A	0102502	8432710025028	3
AC-2 of 250 A	0102504	8432710025042	3
AC-2 of 315 A	0102506	8432710025066	3
AC-2 of 355 A	0102508	8432710025080	3
AC-2 of 400 A	0102510	8432710025103	3
AC-3 of 315 A	0102518	8432710025189	3
AC-3 of 355 A	0102519	8432710025196	3
AC-3 of 400 A	0102520	8432710025202	3
AC-3 of 500 A	0102522	8432710025226	3
AC-3 of 630 A	0102524	8432710025240	3
AC-4 of 630 A	0102530	8432710025301	1
AC-4 of 800 A	0102532	8432710025325	1
AC-4 of 1000 A	0102534	8432710025349	1



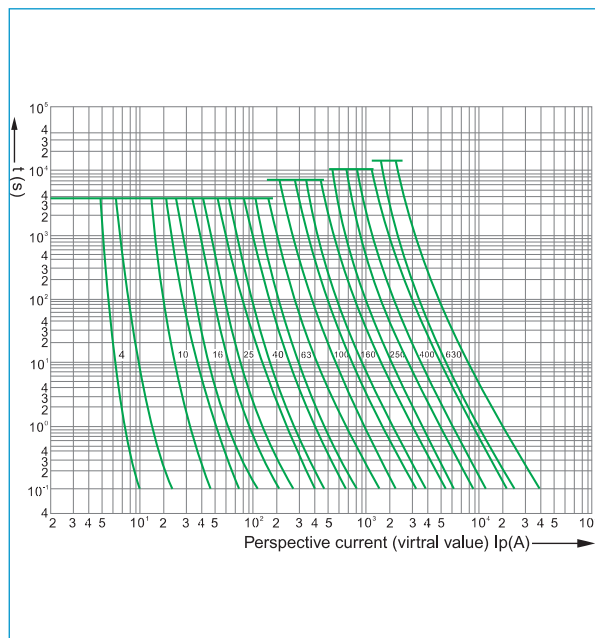
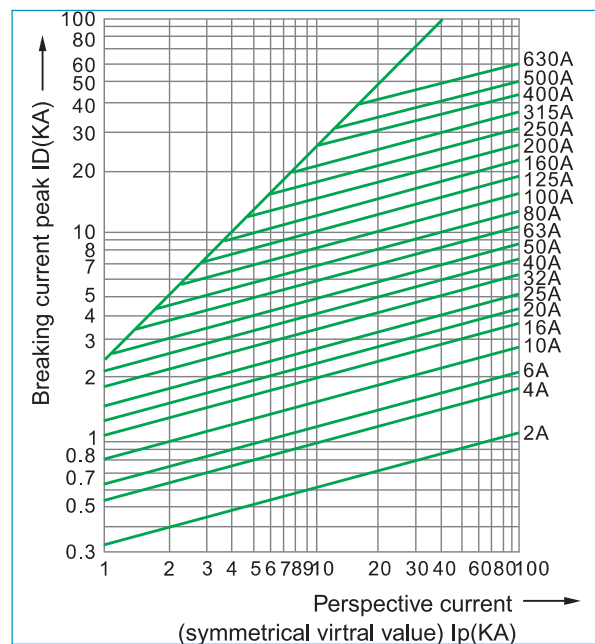
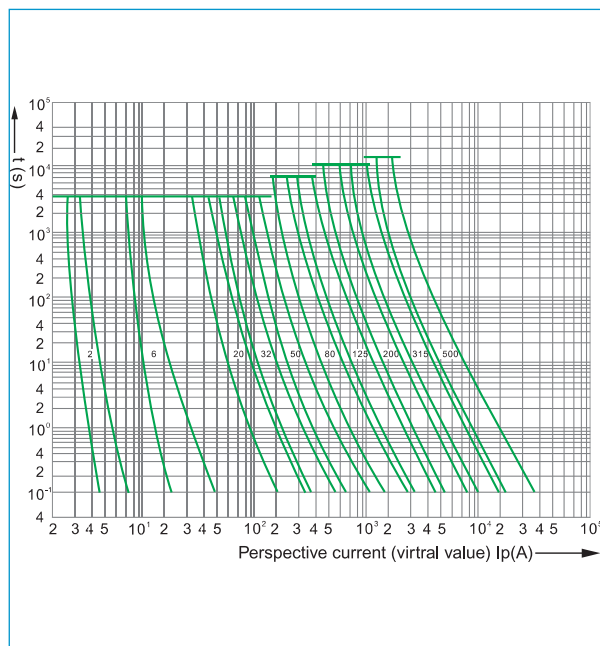
Pin Fuses “Dyfus HRC”.

- High rupture power
- Built according to the standards:
BS 88; CEI 269

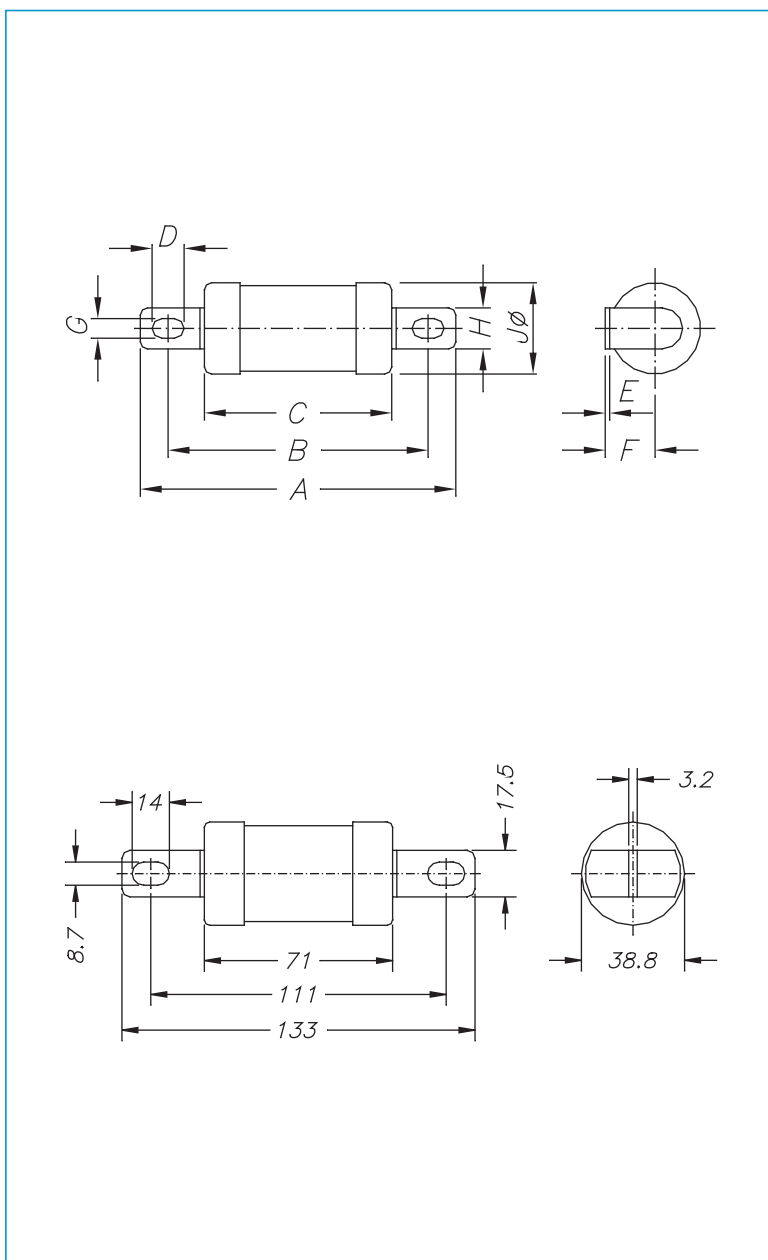


Artículo	Código	EAN 13	Embalaje
HRC-1 of 4 A	0103585	8432710035850	3
HRC-1 of 6 A	0103590	8432710035904	3
HRC-1 of 10 A	0103600	8432710036000	3
HRC-1 of 16 A	0103610	8432710036109	3
HRC-1 of 20 A	0103615	8432710036154	3
HRC-1 of 25 A	0103620	8432710036208	3
HRC-1 of 32 A	0103625	8432710036253	3
HRC-1 of 40* A	0103630	8432710036307	3
HRC-1 of 50* A	0103635	8432710036352	3
HRC-2 of 40 A	0103655	8432710036550	3
HRC-2 of 50 A	0103660	8432710036604	3
HRC-2 of 63 A	0103665	8432710036659	3
HRC-3 of 63 A	0103690	8432710036901	3
HRC-3 of 80 A	0103695	8432710036956	3
HRC-3 of 100 A	0103700	8432710037007	3
HRC-4 of 125 A	0103735	8432710037359	1
HRC-4 of 160 A	0103740	8432710037403	1
HRC-4 of 200 A	0103745	8432710037458	1

* Overcalibrated



Dimension



Denomination	A	B	C	D	E	F	G	H	J
HRC-1/HRC-2	85	73	54	7.5	1.5	14	5.5	9.5	22
HRC-3 63 and 80A	112	93	68	11.5	2	17.5	9	19	31
HRC-3 100, 125 and 160A	114	95	68	11.5	2	18.5	9	19	34
HRC-4 125 and 160A	135	110	63.5	15	3	-	8.5	19	38
HRC-4 200 and 250A	135	110	74	15	3	-	9.5	19	40

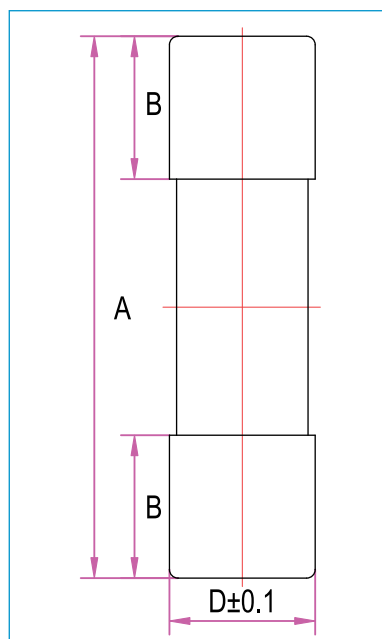
Cylindrical Fuse-Links gL - gG (500V) “Dyfus ZR”.



- Built according to the standards:
UNE EN 60.269-1, 2.1.

Item	Code	EAN 13	Package
ZR-00 (8,5x31,5) of 2 A	0101025	8432710010253	10
ZR-00 (8,5x31,5) of 4 A	0101030	8432710010307	10
ZR-00 (8,5x31,5) of 6 A	0101035	8432710010352	10
ZR-00 (8,5x31,5) of 10 A	0101045	8432710010451	10
ZR-00 (8,5x31,5) of 16 A	0101055	8432710010550	10
ZR-00 (8,5x31,5) of 20 A	0101060	8432710010604	10
ZR-00 (8,5x31,5) of 25* A	0101065	8432710010659	10
ZR-0 (10,3x38) of 2 A	0101075	8432710010758	10
ZR-0 (10,3x38) of 4 A	0101080	8432710010802	10
ZR-0 (10,3x38) of 6 A	0101085	8432710010857	10
ZR-0 (10,3x38) of 10 A	0101095	8432710010956	10
ZR-0 (10,3x38) of 16 A	0101100	8432710011007	10
ZR-0 (10,3x38) of 20 A	0101105	8432710011052	10
ZR-0 (10,3x38) of 25 A	0101110	8432710011106	10
ZR-0 (10,3x38) of 32* A	0171115	8432710711151	10
ZR-1 (14x51) of 2 A	0101140	8432710011403	10
ZR-1 (14x51) of 4 A	0101145	8432710011458	10
ZR-1 (14x51) of 6 A	0101150	8432710011502	10
ZR-1 (14x51) of 10 A	0101160	8432710011601	10
ZR-1 (14x51) of 16 A	0101170	8432710011700	10
ZR-1 (14x51) of 20 A	0101175	8432710011755	10
ZR-1 (14x51) of 25 A	0101180	8432710011809	10
ZR-1 (14x51) of 32 A	0101185	8432710011854	10
ZR-1 (14x51) of 40 A	0101190	8432710011908	10
ZR-1 (14x51) of 50 A	0101195	8432710011953	10
ZR-2 (22x58) of 20 A	0101230	8432710012301	5
ZR-2 (22x58) of 25 A	0101235	8432710012356	5
ZR-2 (22x58) of 32 A	0101240	8432710012400	5
ZR-2 (22x58) of 40 A	0101245	8432710012455	5
ZR-2 (22x58) of 50 A	0101250	8432710012509	5
ZR-2 (22x58) of 63 A	0101255	8432710012554	5
ZR-2 (22x58) of 80 A	0101260	8432710012608	5
ZR-2 (22x58) of 100 A	0101265	8432710012653	5
ZR-2 (22x58) of 125* A	0171270	8432710712707	5

* Over-Sized



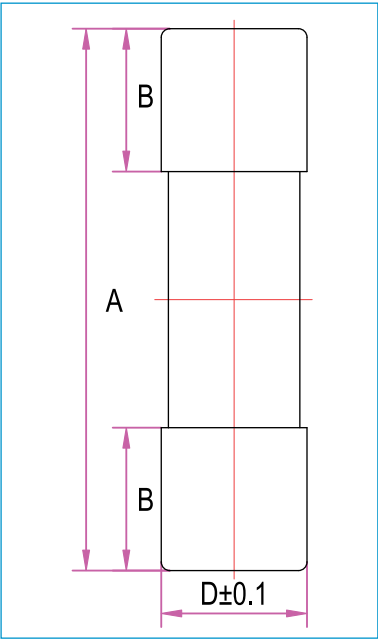
Item	A	B	D
ZR-00	31,5±0,5	6,5	8,5
ZR-0	38±0,6	10	10,3
ZR-1	51±0,6-1,0	13	14,4
ZR-2	58±0,1-2,0	16	22,2

Cylindrical Fuse-Links aM(500V) “Dyfus ZR”.



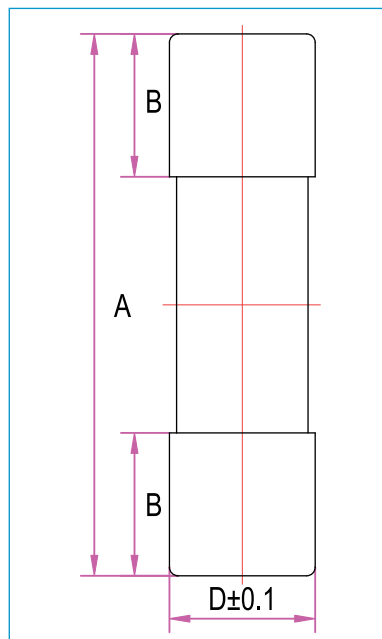
Item	Code	EAN 13	Package
ZR-0 (10,3x38) of 10 A	0101390	8432710013902	10
ZR-0 (10,3x38) of 16 A	0101400	8432710014008	10
ZR-0 (10,3x38) of 20 A	0101405	8432710014053	10
ZR-0 (10,3x38) of 25 A	0101410	8432710014107	10
ZR-0 (10,3x38) of 32 A	0101415	8432710014152	10
ZR-1 (14x51) of 10 A	0101460	8432710014602	10
ZR-1 (14x51) of 16 A	0101470	8432710014701	10
ZR-1 (14x51) of 20 A	0101475	8432710014756	10
ZR-1 (14x51) of 25 A	0171480	8432710714800	10
ZR-1 (14x51) of 32 A	0171485	8432710714855	10
ZR-1 (14x51) of 40 A	0101490	8432710014909	10
ZR-1 (14x51) of 50 A	0101495	8432710014954	10
ZR-2 (22x58) of 32 A	0101540	8432710015401	5
ZR-2 (22x58) of 40 A	0101545	8432710015456	5
ZR-2 (22x58) of 50 A	0101550	8432710015500	5
ZR-2 (22x58) of 63 A	0101555	8432710015555	5
ZR-2 (22x58) of 80 A	0101560	8432710015609	5
ZR-2 (22x58) of 100 A	0101565	8432710015654	5
ZR-2 (22x58) of 125* A	0101570	8432710015708	5

* Over-Sized



Item	A	B	D
ZR-00	31,5±0,5	6,5	8,5
ZR-0	38±0,6	10	10,3
ZR-1	51±0,6-1,0	13	14,4
ZR-2	58±0,1-2,0	16	22,2

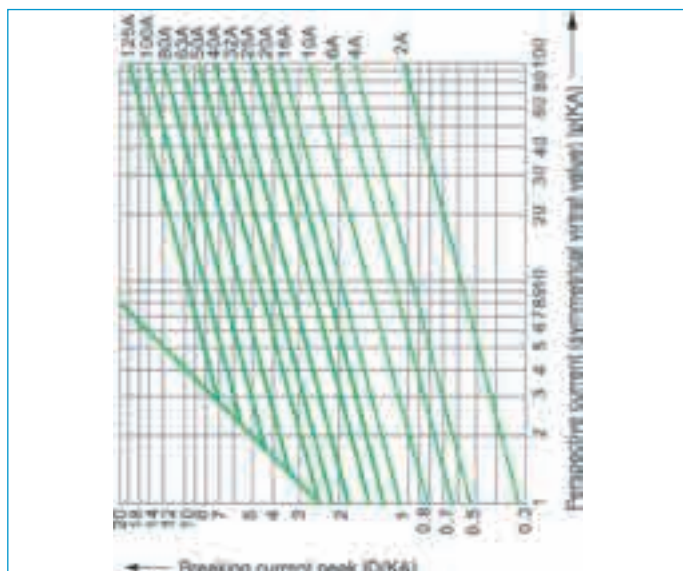
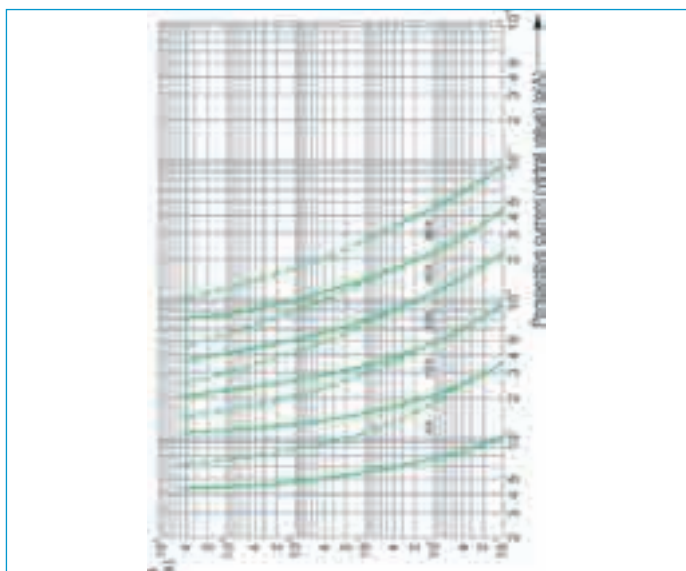
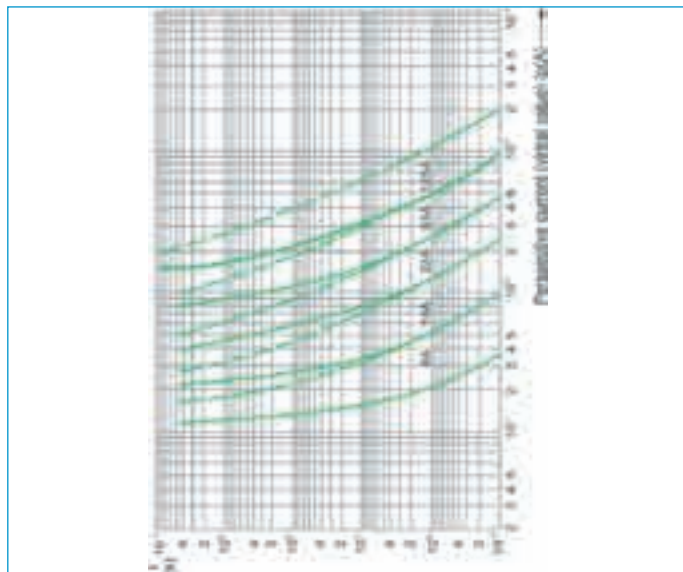
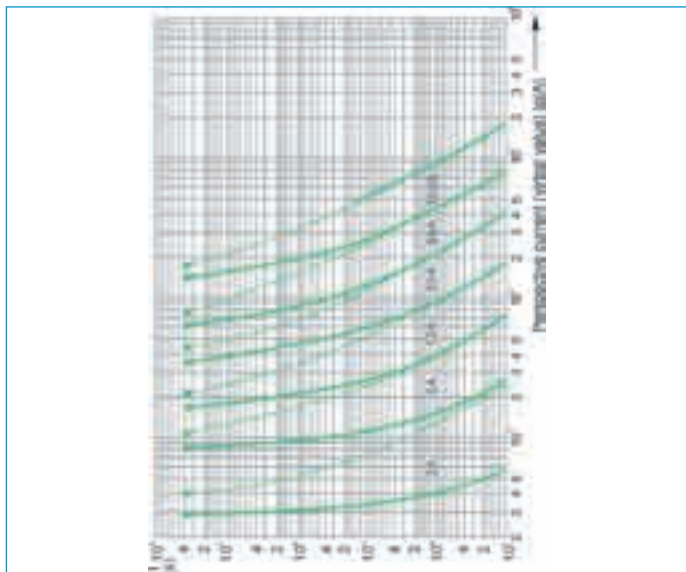
Cylindrical Fuse-Links gL - gG (500V) with indicator "Dyfus ZR".



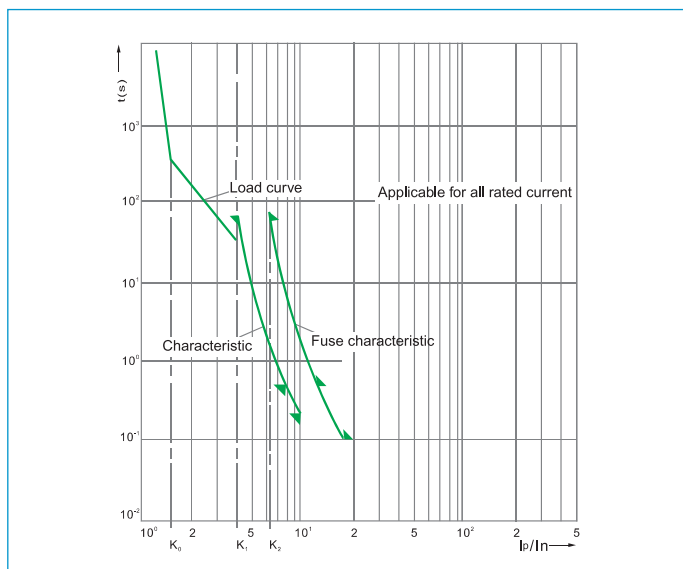
Item	A	B	D
ZR-00	31,5±0,5	6,5	8,5
ZR-0	38±0,6	10	10,3
ZR-1	51±0,6-1,0	13	14,4
ZR-2	58±0,1-2,0	16	22,2

Item	Code	EAN 13	Package
ZR-00 (8,5x31,5) of 2 A C/I	0112901	8432710129016	10
ZR-00 (8,5x31,5) of 4 A C/I	0112902	8432710129023	10
ZR-00 (8,5x31,5) of 6 A C/I	0112903	8432710129030	10
ZR-00 (8,5x31,5) of 10 A C/I	0112904	8432710129047	10
ZR-00 (8,5x31,5) of 12 A C/I	0112905	8432710129054	10
ZR-00 (8,5x31,5) of 16 A C/I	0112906	8432710129061	10
ZR-00 (8,5x31,5) of 20 A C/I	0112907	8432710129078	10
ZR-00 (8,5x31,5) of 25 A C/I	0112908	8432710129085	10
ZR-0 (10,3x38) of 2 A C/I	0112911	8432710129115	10
ZR-0 (10,3x38) of 4 A C/I	0112912	8432710129122	10
ZR-0 (10,3x38) of 6 A C/I	0112913	8432710129139	10
ZR-0 (10,3x38) of 10 A C/I	0112914	8432710129146	10
ZR-0 (10,3x38) of 16 A C/I	0112915	8432710129153	10
ZR-0 (10,3x38) of 20 A C/I	0112916	8432710129160	10
ZR-0 (10,3x38) of 25 A C/I	0112917	8432710129177	10
ZR-0 (10,3x38) of 32 A C/I	0112918	8432710129184	10
ZR-1 (14x51) of 2 A C/I	0112921	8432710129214	10
ZR-1 (14x51) of 4 A C/I	0112922	8432710129221	10
ZR-1 (14x51) of 6 A C/I	0112923	8432710129238	10
ZR-1 (14x51) of 10 A C/I	0112924	8432710129245	10
ZR-1 (14x51) of 16 A C/I	0112925	8432710129252	10
ZR-1 (14x51) of 20 A C/I	0112926	8432710129269	10
ZR-1 (14x51) of 25 A C/I	0112927	8432710129276	10
ZR-1 (14x51) of 32 A C/I	0112928	8432710129283	10
ZR-1 (14x51) of 40 A C/I	0112929	8432710129290	10
ZR-1 (14x51) of 50 A C/I	0112930	8432710129306	10
ZR-2 (22x58) of 16 A C/I	0112933	8432710129337	5
ZR-2 (22x58) of 20 A C/I	0112934	8432710129344	5
ZR-2 (22x58) of 25 A C/I	0112935	8432710129351	5
ZR-2 (22x58) of 32 A C/I	0112936	8432710129368	5
ZR-2 (22x58) of 40 A C/I	0112937	8432710129375	5
ZR-2 (22x58) of 50 A C/I	0112938	8432710129382	5
ZR-2 (22x58) of 63 A C/I	0112939	8432710129399	5
ZR-2 (22x58) of 80 A C/I	0112940	8432710129405	5
ZR-2 (22x58) of 100 A C/I	0112941	8432710129412	5
ZR-2 (22x58) of 125 A C/I	0112942	8432710129429	5

gG type cylindrical fuse curves.



aM type cylindrical fuse curves.



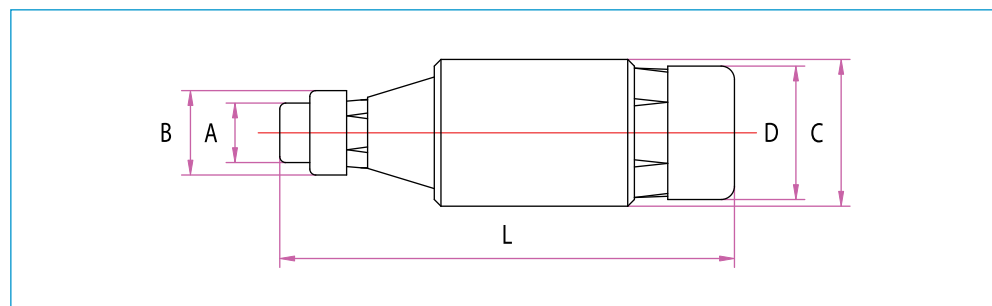
DO Fuse-Links (380V) "Dyfus DO".

- Built according to the standards CEI 269 and 269-3.



Item	Code	EAN 13	Package
DO1 4 A	0112800	8432710128002	10
DO1 6 A	0112801	8432710128019	10
DO1 10 A	0112802	8432710128026	10
DO1 16 A	0112803	8432710128033	10
DO2 20 A	0112804	8432710128040	20
DO2 25 A	0112805	8432710128057	20
DO2 35 A	0112806	8432710128064	20
DO2 50 A	0112807	8432710128071	20
DO2 63 A	0112808	8432710128088	20
DO3 80 A	0112815	8432710128156	10
DO3 100 A	0112809	8432710128095	10

Dimensions:



Item	In(A)	Dimensions				
		A	B	C	D	L
DO1	2-6	5	7,3	10,6	10	36
	10	5	8,5	10,6	10	36
	16	5	9,7	10,6	10	36
DO2	20	8,5	11	15	14	36
	25	8,5	12	15	14	36
	35	8,5	13,3	15	14	36
	50	8,5	14,5	15	14	36
	63	8,5	16	15	14	36
DO3	80	17	22	22	21	43
	100	17	25	22	21	43

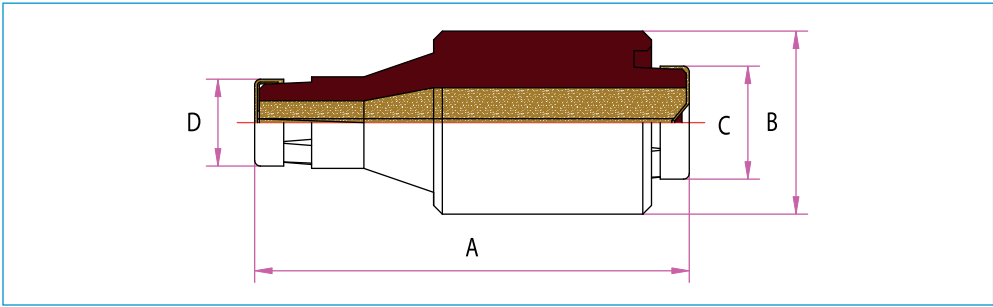


D Fuse-Links (500V) “Dyfus D”.

- Built according to the standards CEI 269 and 269-3.

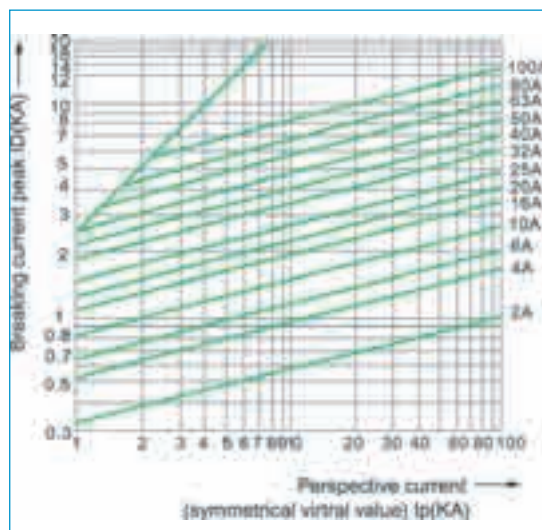
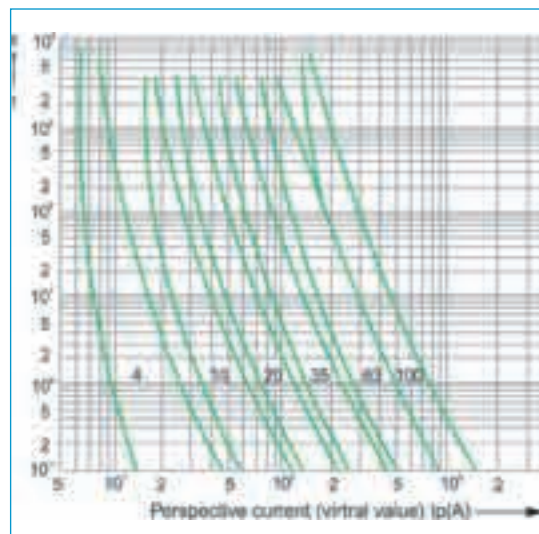
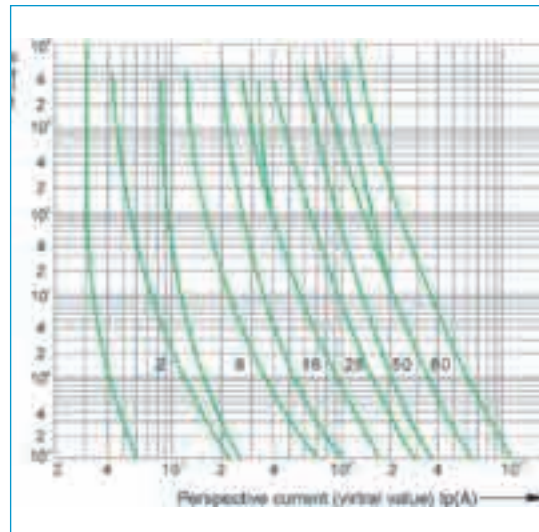
Item	Code	EAN 13	Package
DII 6 A	0112825	8432710128255	20
DII 10 A	0112826	8432710128262	20
DII 16 A	0112827	8432710128279	20
DII 20 A	0112828	8432710128286	20
DII 25 A	0112829	8432710128293	20
DIII 35 A	0112835	8432710128354	20
DIII 50 A	0112836	8432710128361	20
DIII 63 A	0112837	8432710128378	20

Dimensions:



Item	In(A)	Dimensions			
		A	B	C	D
D II	6	50	21	13	6
	10				8
	16				10
	20				12
	25				14
D III	35	50	27	20	16
	50				18
	63				20

DO and D type fuse curves.

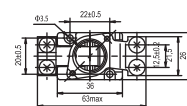
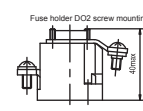
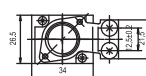
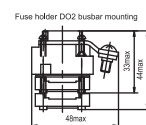
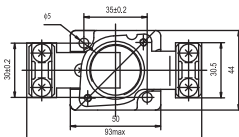
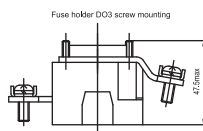
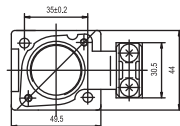
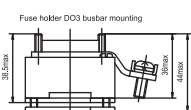
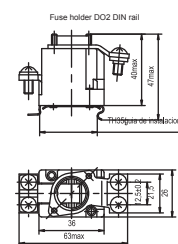
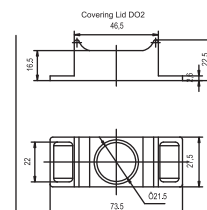
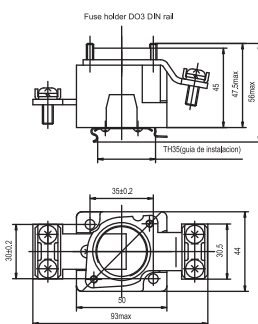
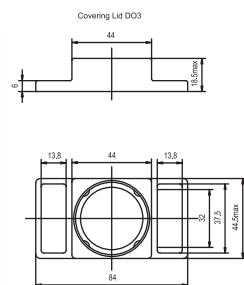
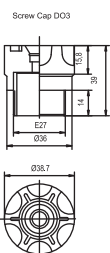




DO Type Fuse-bases "Dyfus DO".

Built in compliance with:
IEC 269 and IEC 269-3

Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse holder DO 2 Screw mounting	0111800	8432710118003	63	DO 2	20
Fuse holder DO 2 DIN rail mounting	0111801	8432710118010	63	DO 2	20
Fuse holder DO 2 Busbar mounting	0111802	8432710538027	63	DO 2	20
Fuse holder DO 3 Screw mounting	0111802	8432710538126	100	DO 3	10
Fuse holder DO 3 DIN rail mounting	0111813	8432710538133	100	DO 3	10
Fuse holder DO 3 Busbar mounting	0111814	8432710538140	100	DO 3	10
Screw Cap DO2	0111808	8432710538089	-	DO 2	20
Screw Cap DO3	0111820	8432710538201	-	DO 3	10
Covering Lid DO 2	0111805	8432710538058	-	DO 2	50
Covering Lid DO 3	0111817	8432710538171	-	DO 3	50

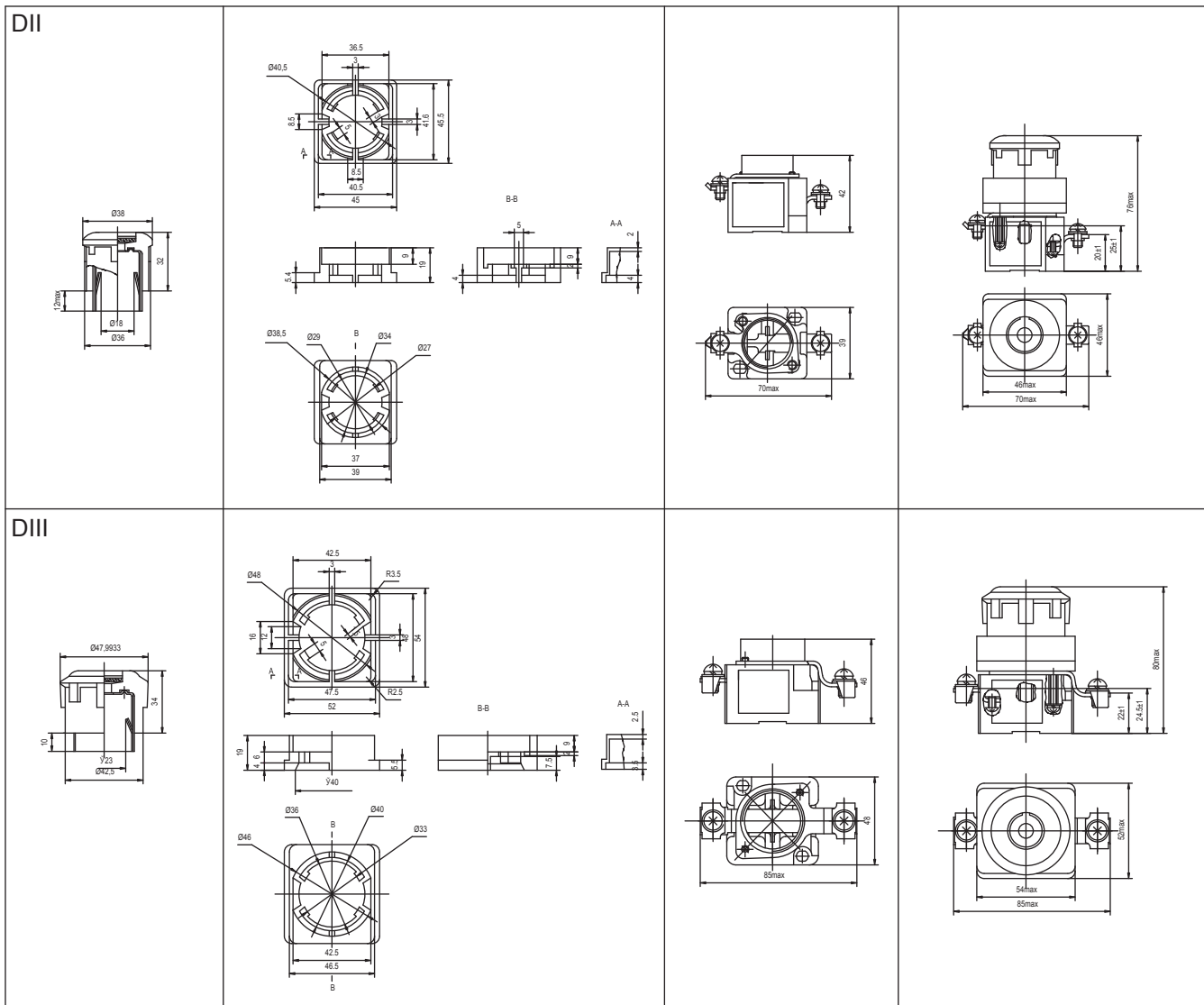




D Type Fuse-Bases “Dyfus D”.

Built in compliance with:
IEC 269 and IEC 269-3

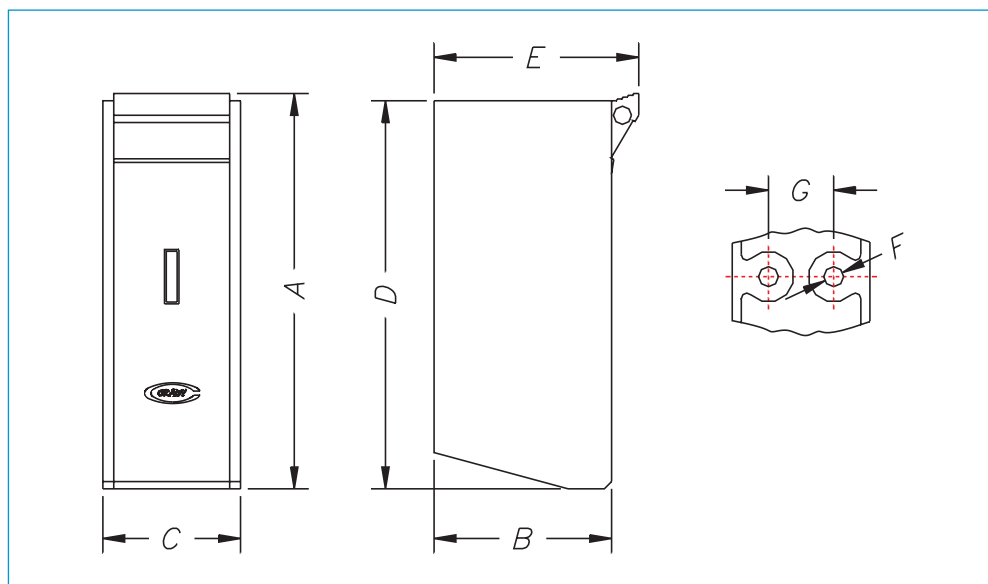
Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
D-II SCREW MOUNTING	0111840	8432710118409	25	DII	6
D-III SCREW MOUNTING	0111841	8432710118416	63	DIII	3
DII FUSEHOLDER BASE PLUG	0111861	8432710118614	-	DII	12
DIII FUSEHOLDER BASE PLUG	0111862	8432710118621	-	DIII	6
DII FUSEHOLDER PROTECTION COVER	0111866	8432710118669	-	DII	24
DIII FUSEHOLDER PROTECTION COVER	0111867	8432710118676	-	DIII	18



Cylindrical Fuse holders “Dyfus ZRB”.


- Built according to the standards:
UNE-EN 60947-1, 3; ETU 6307 A
- Materials:
 - Insulating fuse-holder socket and handle, self-extinguishing.
 - Contact clamps made of silvery electrolytic copper.
 - Connection elements through steel brackets properly treated against corrosion or bimetal spade terminals.
- Technical specifications:
 - Protection levels: 500 V
 - Protection grade: IP2X
 - Thermal class: F(155°C)
 - Heat and fire resistance: 960°C
- Screw Mounting

Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse holder DYFUS ZRB-25	0151020	8432710510203	25	10x38	20
Fuse holder DYFUS ZRB-50	0151025	8432710510258	50	14x51	20
Fuse holder DYFUS ZRB-100	0151030	8432710510302	100	22x58	20



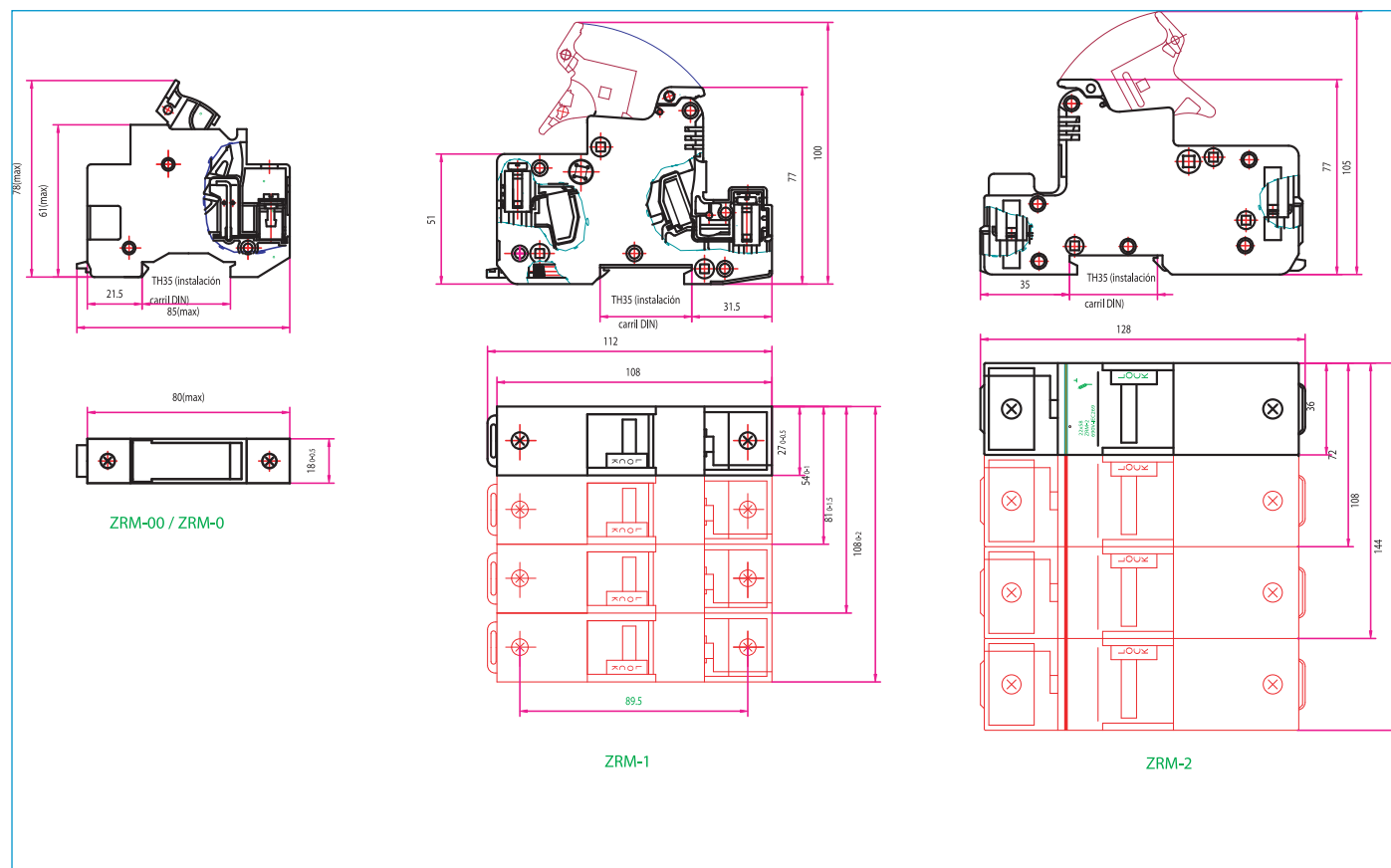
Denomination	In(A)	Size	A	B	C	D	E	F	G
ZRB-25	25	10x38	82,5	32	24	80,5	39,5	5	11
ZRB-50	50	14x51	98	38	30	96	45,5	5,5	12
ZRB-100	100	22x58	118	49	36	107	58	5,5	18

Cylindrical Fuse holders “Dyfus ZRM”.



- DIN rail mounting.
- 1/2/3 poles.

Item	Code	EAN 13	Characteristics	Pack
Fuse holder 8x31 DIN rail mounting ZRM-00	0111700	8432710117006	Unipolar. Fuse Size 8x31	10
Fuse holder 10x38 DIN rail mounting ZRM-0	0111701	8432710117013	Unipolar. Fuse Size 10x38	10
Fuse holder 14x51 DIN rail mounting ZRM-1	0111702	8432710117020	Unipolar. Fuse Size 14x51	6
Fuse holder 22x58 DIN rail mounting ZRM-2	0111703	8432710117037	Unipolar. Fuse Size 22x58	6
Fuse holder 8x31 DIN rail mounting 2-ZRM-00	0111704	8432710117044	Bipolar. Fuse Size 8x31	6
Fuse holder 10x38 DIN rail mounting 2-ZRM-0	0111705	8432710117051	Bipolar. Fuse Size 10x38	6
Fuse holder 14x51 DIN rail mounting 2-ZRM-1	0111706	8432710117068	Bipolar. Fuse Size 14x51	3
Fuse holder 22x58 DIN rail mounting 2-ZRM-2	0111707	8432710117075	Bipolar. Fuse Size 22x58	3
Fuse holder 8x31 DIN rail mounting 3-ZRM-00	0111708	8432710117082	Tripe-pole. Fuse Size 8x31	4
Fuse holder 10x38 DIN rail mounting 3-ZRM-0	0111709	8432710117099	Tripe-pole. Fuse Size 10x38	4
Fuse holder 14x51 DIN rail mounting 3-ZRM-1	0111710	8432710117105	Tripe-pole. Fuse Size 14x51	2
Fuse holder 22x58 DIN rail mounting 3-ZRM-2	0111711	8432710117112	Tripe-pole. Fuse Size 22x58	2



Accessories.



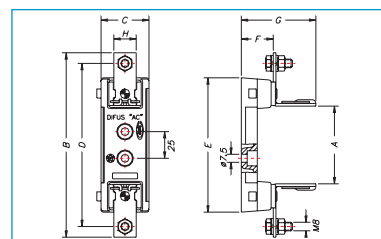
Item	Code	EAN 13	Characteristics	Pack
Neuter link ZRC-0 25A (10X38)	0151250	8432710512504	For ZRB-25	20
Neuter link ZRC-1 50A (14X51)	0151255	8432710512559	For ZRB-50	20
Neuter link ZRC-2 100A (22X58)	0151260	8432710512603	For ZRB-100	20
Opening cam ZRB-100	0151265	8432710512658	For ZRB-100	20



NH Fuse holders (Termoplastic) "Dyfus AC".

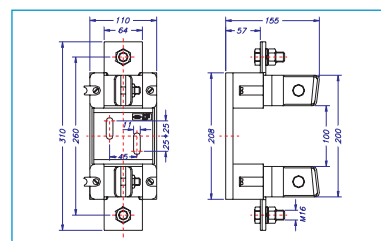
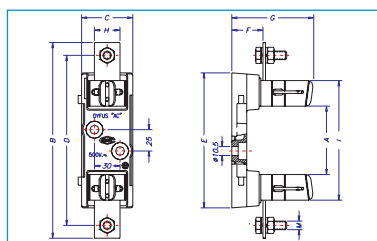
- 1-Pole Fuse holder for NH fuses.
- Built according to the standards:
- UNE-EN 60269-1, 2-1; UNE 21.103/1,2-1.
- Materials:
 - Insulating, one-piece socket, self-extinguishing.
 - Contact clamps made of silvery electrolytic copper.
 - Connection elements through stainless screws or metal terminals.
- DYFUS AC-1000 bases consist of a metal plate and self-extinguishing insulators.
- Technical data:

- Rated operational voltage:	500 V.	- Thermal class:	F(155°C)
- Protection levels:	IP2X	- Resistance to abnormal heat and fire:	960°C



Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse holder AC-100 ESCUADRA	0153005	8432710530058	160	00	20
Fuse holder AC-160 ESCUADRA	0153010	8432710530102	160	0	10
Fuse holder AC-250 LIRA	0153015	8432710530157	250	1	5
Fuse holder AC-400 LIRA	0153020	8432710530201	400	2	5
Fuse holder AC-630 LIRA	0153025	8432710530256	630	3	5
Fuse holder AC-1000 LIRA	0153030	8432710530300	1000	4	1

Denomination	In (A)	Size	A	B	C	D	E	F	G	H	M
AC-100	160	00	56	121	32	100,5	82	21	50	21	8
AC-160	160	0	74	173	45	153	126	30	70	21	8



Denomination	In(A)	Size	A	B	C	D	E	F	G	H	I	M
AC-250	250	1	78	200	60	174	148	34	82	27	136	10
AC-400	400	2	80	230	60	200	158	34	96	30	140	10
AC-630	630	3	83	253	80	209	160	35	96	40	143	12

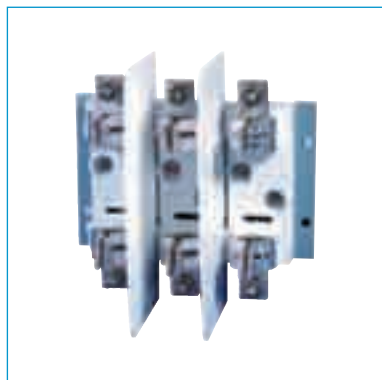
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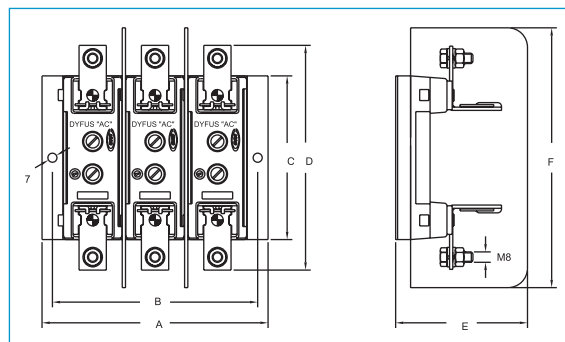
NH Fuse holder (Ceramic).

Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse holder AC-100 Ceramic	0153260	8432710532601	160	00	1
Fuse holder AC-160 Ceramic	0153261	8432710532618	160	0	1
Fuse holder AC-250 Ceramic	0153262	8432710532625	250	1	1
Fuse holder AC-400 Ceramic	0153263	8432710532632	400	2	1
Fuse holder AC-630 Ceramic	0153264	8432710532649	630	3	1

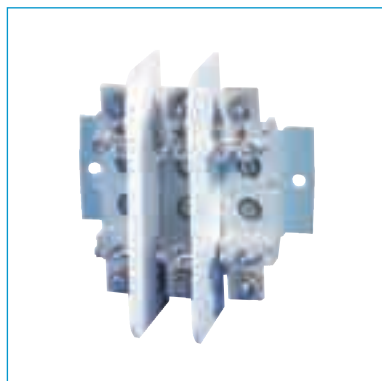
NH Fuse holder (3-Poles) “Dyfus AC”.



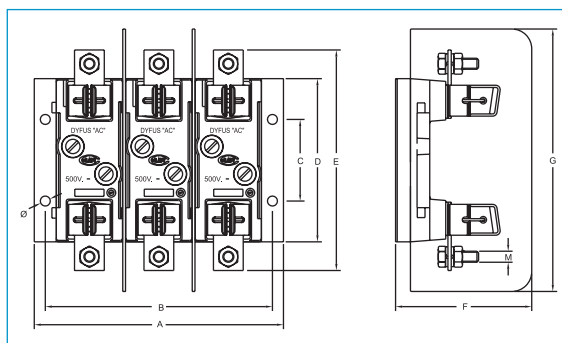
Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse holder 3 AC-100	0153035	8432710530355	160	00	2
Fuse holder 3 AC-160	0153040	8432710530409	160	0	2



Denomination	In(A)	Fuse Size	A	B	C	D	E	F
3AC-100	160	00	135	120	62	121	85	150
3AC-160	160	0	174	158	126	173	102	200



Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse holder 3 AC-250	0153045	8432710530454	250	1	1
Fuse holder 3 AC-400	0153050	8432710530508	400	2	1
Fuse holder 3 AC-630	0153055	8432710530553	630	3	1



Denomination	In(A)	Fuse Size	A	B	C	D	E	Ø	F	G	M
3AC-250	250	1	226	206	74	148	200	9	124	240	10
3AC-400	400	2	226	206	74	158	230	9	124	240	10
3AC-630	630	3	290	270	74	160	253	9	148	260	12

NH Fuse switch-disconnector (1-pole) "BUC".

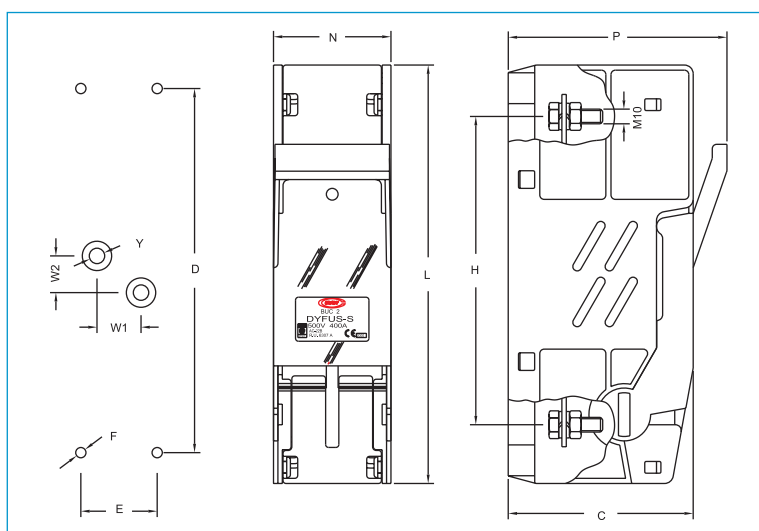


- 1-Pole fuse switch-disconnector for NH fuses.
- Built according to the standards:
UNE-EN 60947-1, 3.
- Materials:
 - Insulating fuse-holder socket and handle, self-extinguishing.
 - Contact clamps made of silvery electrolytic copper.
 - Connection elements through steel brackets properly treated against corrosion or bimetal spade terminals.
- Technical data:

- Rated operational voltage:	500 V
- Voltage at industrial frequency:	
Mass – phase	10 kV
Phase – phase	2.5 kV
- Insulation resistance:	> 5 MW
- Short-circuit resistance:	> 50 kV
- Electrical endurance (operation)	200
- Mechanical endurance (operation):	1400
- Utilization category:	AC-22 B
- Protection levels:	
Open	IP-1X
Closed	IP-2X
- Thermal class:

Base	F (155°F)
Rest	E (120°C)

Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse holder BUC-00	0111527	8432710115279	160	00	1
Fuse holder BUC-1	0153210	8432710532106	250	1	3
Fuse holder BUC-2	0153220	8432710532205	400	2	3
Fuse holder BUC-1 CONEX.T	0111656	8432710116566	250	1	1
Fuse holder BUC-1 CONEX.T Y L	0111655	8432710116559	250	1	1
Fuse holder BUC-2 CONEX.T	0111661	8432710116610	400	2	1
Fuse holder BUC-2 CONEX.T Y L	0111660	8432710116603	400	2	1



Denomination	Fuse Size	In(A)	H	N	P	W1	W2	Y	L	C	D	E	F
BUC-00	00	160	120	49	86	25	25	7	200	80	248	52	7
BUC-1	1	250	210	80	150	30	25	10,5	285	126	248	52	7
BUC-2	2	400	210	80	150	30	25	10,5	285	126	248	52	7



NH Fuse switch-disconnector (3-Poles).

Item	Code	EAN 13	Characteristics		Pack
			IN A.	Fuse Size	
Fuse carrier 3 BUC-00	0111528	8432710115286	160	00	1
Fuse carrier 3 BUC-1	0153230	8432710532304	250	1	1
Fuse carrier 3 BUC-2	0153240	8432710532403	400	2	1



Accessories.

Item	Code	EAN 13	Characteristics	Pack
NH Fuse Handle	0153060	8432710530607	Universal AC	10
Neuter Link AC-00	0153065	8432710530652	For AC-100	12
Neuter Link AC-0 1	0153070	8432710530706	For AC-160/250	12
Neuter Link AC-2 3	0153075	8432710530751	For AC-400/630	6
Neuter Link AC-4	0153080	8432710530805	For AC-1000	2
Separating Plate AC-100	0153085	8432710530850	For AC-100	20
Separating Plate AC-160	0153090	8432710530904	For AC-160	20
Separating Plate AC-250/400	0153095	8432710530959	For AC-250/400	20
Separating Plate AC-630	0153100	8432710531000	For AC-630	20
Separating Plate AC-1000	0153105	8432710531055	For AC-1000	10



NH Fuse switch-disconnector (3-Poles) "ACS".

Built according to standards: UNE-EN 60947-1,3.

Item	Code	EAN 13	Characteristics high x wide x depth	Pack
Disconnecter ACS-160	0171050	8432710710504	3 poles, Fuses T-00 105,5x169,5x86	1
Disconnecter ACNS-250	0172030	8432710720305	3 poles, Fuses T-1 184x246,5x119	1
Disconnecter ACNS-400	0172035	8432710720350	3 poles, Fuses T-2 210x272,5x133	1
Disconnecter ACNS-630	0172040	8432710720404	3 poles, Fuses T-3 280x254x150	1

NH Fuse switch-disconnector (3/4-Poles) "ACNS".

- ACNS is a metal IP3X casing on which the disconnector is fitted, accessible from the outside by means of the disconnection handle on the door.
- ACNS-I is specially designed for outdoors. This disconnector is completely protected inside an insulation casing made of IP55 polyester



Item	Code	EAN 13	Characteristics high x wide x depth	Pack
Disconnecter ACNS-160	0172020	8432710720206	3 poles+N, Fuses T-00 250x300x112	1
Disconnecter ACNS-250	0172030	8432710720305	3 poles+N, Fuses T-1 350x450x145	1
Disconnecter ACNS-400	0172035	8432710720350	3 poles+N, Fuses T-2 452x550x169	1
Disconnecter ACNS-630	0172040	8432710720404	3 poles+N, Fuses T-3 452x550x169	1
Disconnecter ACNS-160 4P	0172050	8432710720503	4 poles, Fuses T-00 250x300x112	1
Disconnecter ACNS-250 4P	0111512	8432710115125	4 poles, Fuses T-1 350x450x150	1
Disconnecter ACNS-630 4P	0111513	8432710115132	4 poles, Fuses T-3 452x550x175	1
Disconnecter ACNS-160-I	0172120	8432710721203	3 poles+N, Fuses T-00 330x430x200	1
Disconnecter ACNS-250-I	0172130	8432710721302	3 poles+N, Fuses T-1 430x540x200	1
Disconnecter ACNS-400-I	0172135	8432710721357	3 poles+N, Fuses T-2 430x540x200	1
Disconnecter ACNS-630-I	0172140	8432710721401	3 poles+N, Fuses T-3 430x540x200	1
Disconnecter ACNS-160 4P-I	0111514	8432710115149	4 poles, Fuses T-00 330x430x200	1
Disconnecter ACNS-250 4P-I	0111515	8432710115156	4 poles, Fuses T-1 430x540x200	1
Disconnecter ACNS-630 4P-I	0111516	8432710115163	4 poles, Fuses T-3 430x540x200	1

Accessories.



Item	Code	EAN 13	Characteristics	Pack
Frame ACS-160	0111517	8432710115170	For ACS-160	1
Frame ACS-250	0111518	8432710115187	For ACS-250	1
Frame ACS-400	0111519	8432710115194	For ACS-400	1
Frame ACS-630	0111520	8432710115200	For ACS-630	1
Frame ACS-160	0111521	8432710115217	For ACS-160	1
Neutral ACS-250	0111522	8432710115224	For ACS-250	1
Neutral ACS-630	0111523	8432710115231	For ACS-630	1
Union Kit 4P-160	0111524	8432710115248	For ACS-160	1
Union Kit 4P-250	0111525	8432710115255	For ACS-250	1
Union Kit 4P-630	0111526	8432710115262	For ACS-630	1

NH Fuse-Strip-Type Fuse switch-disconnector "Distrifus".

Built according to the standards:

UNE-EN 60.947-1, 3; UNE -EN 60.269-1,2-1.

Technical Data:

Rated operational voltage	500 V.	Short-circuit resistance	> 50 kV
- Voltage at industrial frequency		Thermal class	
Mass – phase	10 kV	Base	F(155°C)
Phase – phase	2,5 kV	Rest	E(120°C)
Insulation resistance:	> 5 MΩ	Resistance to abnormal heat and fire	960°C

Distrifus BTVA.

3-Pole open vertical base, without protection cover.

Item	Code	EAN 13	Characteristics	Pack
DISTRIFUS BTVA-00	0111501	8432710115019	Fuses T-00	1
DISTRIFUS BTVA-1	0160005	8432710600058	Fuses T-1	1
DISTRIFUS BTVA-2	0160010	8432710600102	Fuses T-2	1
DISTRIFUS BTVA-3	0160015	8432710600157	Fuses T-3	1

Distrifus BTVA-P.

3-Pole open vertical base, with protection cover. Optional winding base with 100 mm seFortion.

Item	Code	EAN 13	Characteristics	Pack
DISTRIFUS BTVA-00/100-P	0111502	8432710115026	Fuses T-00	1
DISTRIFUS BTVA-00-P	0160017	8432710600171	Fuses T-00	1
DISTRIFUS BTVA-1-P	0160020	8432710600201	Fuses T-1	1
DISTRIFUS BTVA-2-P	0160025	8432710600256	Fuses T-2	1
DISTRIFUS BTVA-3-P	0160030	8432710600300	Fuses T-3	1

Distrifus-S BTVC.

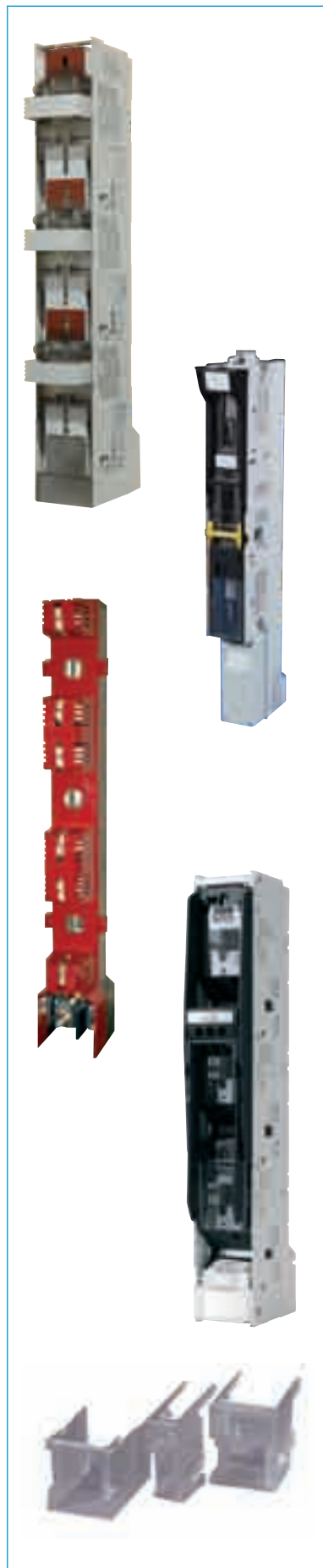
Three-pole closed vertical sectionable base, with arc extinguishing device. Optional winding base with 100 mm seFortion.

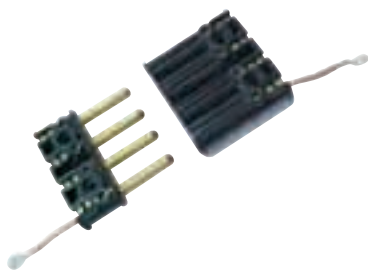
Item	Code	EAN 13	Characteristics	Pack
DISTRIFUS-S BTVC-00	0160033	8432710600331	Fuses T-00	1
DISTRIFUS-S BTVC-1	0160035	8432710600355	Fuses T-1	1
DISTRIFUS-S BTVC-2	0160040	8432710600409	Fuses T-2	1
DISTRIFUS-S BTVC-3	0160043	8432710600430	Fuses T-3	1
DISTRIFUS-S BTVC-00/100 DT	0111503	8432710115033	Fuses T-00	1
DISTRIFUS-S BTVC-00 DT*	0111504	8432710115040	Fuses T-00	1
DISTRIFUS-S BTVC-1 DT*	0111505	8432710115057	Fuses T-1	1
DISTRIFUS-S BTVC-2 DT*	0111506	8432710115064	Fuses T-2	1
DISTRIFUS-S BTVC-3 DT*	0111507	8432710115071	Fuses T-3	1

*3-Pole switchable at the same time

Accesories.

Item	Code	EAN 13	Characteristics	Pack
Output cover BTVA-00	0111508	8432710115088	For BTVA-00 y BTVA-00-P	1
Output cover BTVA-1/2/3	0111509	8432710115095	For BTVA-1/2/3 y BTVA-1/2/3-P	1
Output cover BTVC-00	0111510	8432710115101	For BTVC-00	1
Output cover BTVC-1/2/3	0111511	8432710115118	For BTVC-1/2/3	1





Industrial plugs "Dylet".

- Made of light weight aluminium
- Brass contacts
- Insulating interior components
- Built according to the standards: DIN 49.450, DIN 49.451
- IP 44

Plugs.

Item	Code	EAN 13	Characteristics	Pack
Plug 3025	0121020	8432710210202	3P+T-380 V/25 A	10
Plug 3040	0121025	8432710210257	3P+T-380 V/40 A	10
Plug 3063	0121030	8432710210301	3P+T-380 V/63 A	5
Plug 3100	0121035	8432710210356	3P+T-380 V/100 A	2

Connectors.

Item	Code	EAN 13	Characteristics	Pack
Connector 4025	0121040	8432710210400	3P+T-380 V/25 A	10
Connector 4040	0121045	8432710210455	3P+T-380 V/40 A	10
Connector 4063	0121050	8432710210509	3P+T-380 V/63 A	5
Connector 4100	0121055	8432710210554	3P+T-380 V/100 A	2

Panel Mounted Receptacles.

Item	Code	EAN 13	Characteristics	Pack
Panel mounted receptacle 5025	0121060	8432710210608	3P+T-380 V/25 A	10
Panel mounted receptacle 5040	0121065	8432710210653	3P+T-380 V/40 A	10
Panel mounted receptacle 5063	0121070	8432710210707	3P+T-380 V/63 A	5
Panel mounted receptacle 5100	0121075	8432710210752	3P+T-380 V/100 A	2

Receptacles.

Item	Code	EAN 13	Characteristics	Pack
Receptacle 6025	0121080	8432710210806	3P+T-380 V/25 A	10
Receptacle 6040	0121085	8432710210851	3P+T-380 V/40 A	10
Receptacle 6063	0121090	8432710210905	3P+T-380 V/63 A	5
Receptacle 6100	0121095	8432710210950	3P+T-380 V/100 A	2

Receptacle with switch and fuses.

Item	Code	EAN 13	Characteristics	Pack
Receptacle 8025	0121120	8432710211209	3P+T-380 V/25 A	1
Receptacle 8040	0121125	8432710211254	3P+T-380 V/40 A	1
Receptacle 8063	0121130	8432710211308	3P+T-380 V/63 A	1

Spare parts.

Item	Code	EAN 13	Characteristics	Pack
Piece 302	0121145	8432710211452	For Plug 25 A	5
Piece 304	0121150	8432710211506	For Plug 40 A	5
Piece 306	0121155	8432710211551	For Plug 63 A	5
Piece 310	0121160	8432710211605	For Plug 100 A	5
Piece 402	0121165	8432710211650	For bases 25 A	5
Piece 404	0121170	8432710211704	For bases 40 A	5
Piece 406	0121175	8432710211759	For bases 63 A	5
Piece 410	0121180	8432710211803	For bases 100 A	5



IP 65 Cabinets.

Technical Data:

- Hot moulded glass fibre reinforced polyester.
- IP 65 / IK 09.
- RAL-7035 (light grey).
- Temperature resistant between -30°C and 120°C.
- Door with internal hinges (Allow 180° opening).
- Standard lock: double bar (DIN 43668).
- Self extinguishing material.

Item	Code	EAN 13	Dimensions high x wide x depth	Pack
MINI-CR-325 IP-65 Cabinet	0192180	8426487423637	300x250x160	1
MINI-CR-43 IP-65 Cabinet	0192181	8426487423644	400x300x200	1
MINI-CR-54 IP-65 Cabinet	0192182	8426487423651	500x400x200	1
MINI-CR-65 IP-65 Cabinet	0192183	8426487423668	600x500x250	1
MINI-CR-86 IP-65 Cabinet	0192184	8426487423675	800x600x300	1

Accessories: locks, transparent doors.

Mounting plates.

Item	Code	EAN 13	Characteristics	Pack
Metallic mounting plate mini-CR-325	0192190	8426487426225	Plate For Cabinet MINI-CR-325	1
Metallic mounting plate mini-CR-43	0192191	8426487426232	Plate For Cabinet MINI-CR-43	1
Metallic mounting plate mini-CR-54	0192192	8426487426249	Plate For Cabinet MINI-CR-54	1
Metallic mounting plate mini-CR-65	0192193	8426487426256	Plate For Cabinet MINI-CR-65	1
Metallic mounting plate mini-CR-86	0192194	8426487426263	Plate For Cabinet MINI-CR-86	1
Mini-CR-325 plastic mounting plate	0192185	8426487426171	Plate For Cabinet MINI-CR-325	1
Mini-CR-43 plastic mounting plate	0192186	8426487426188	Plate For Cabinet MINI-CR-43	1
Mini-CR-54 plastic mounting plate	0192187	8426487426195	Plate For Cabinet MINI-CR-54	1
Mini-CR-65 plastic mounting plate	0192188	8426487426201	Plate For Cabinet MINI-CR-65	1
Mini-CR-86 plastic mounting plate	0192189	8426487426218	Plate For Cabinet MINI-CR-86	1
Mini-CR-43 distribution chassis	0192195	8426487426270	Chasis montaje aFormenta MINI-CR-43	1
Mini-CR-54 distribution chassis	0192196	8426487426287	Chasis montaje aFormenta MINI-CR-54	1
Mini-CR-65 distribution chassis	0192197	8426487426294	Chasis montaje aFormenta MINI-CR-65	1
Mini-CR-86 distribution chassis	0192198	8426487426300	Chasis montaje aFormenta MINI-CR-86	1

IP 55 Cabinets.

Technical Data:

- Hot moulded glass fibre reinforced polyester.
- IP 55 / IK 09.
- RAL-7035 (light grey).
- Temperature resistant between -30°C and 150°C.
- Opens wider than 90°.
- Standard 3 point latching mechanism with 11 mm locking system (DIN 43668).



Item	Code	EAN 13	Dimensions high x wide x depth	Pack
CR-55 cabinet	0192170	8426487423576	500x500x300	1
CR-57 cabinet	0192171	8426487423583	500x750x300	1
CR-75 cabinet	0192172	8426487423590	750x500x300	1
CR-105 cabinet	0192173	8426487423606	1000x500x300	1
CR-107 cabinet	0192174	8426487423613	1000x750x300	1
CR-1010 cabinet	0192175	8426487423620	1000x1000x300	1

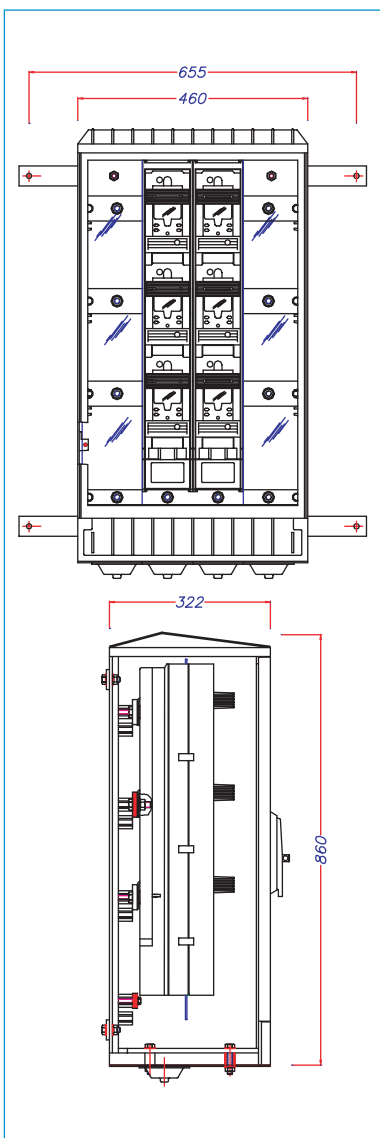
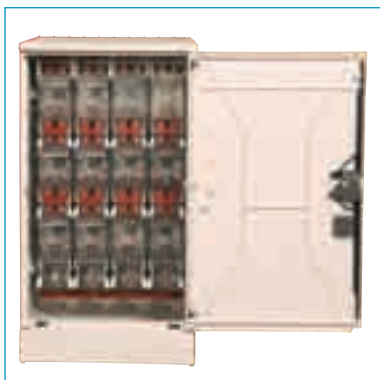
Other accessories available: transparent door, locks, padlock device, coupling clamps, fixings, etc.

Mounting Plates.

Item	Code	EAN 13	Characteristics	Pack
Plastic mounting plate CR-55	0192210	8426487430130	CR-55	1
Plastic mounting plate CR-75	0192199	8426487428373	CR-75 and CR-57	1
Plastic mounting plate CR-105	0192211	8426487430147	CR-105	1
Plastic mounting plate CR-107	0192212	8426487430154	CR-107	1
Plastic mounting plate CR-1010	0192213	8426487430161	CR-1010	1

Power distribution cabinets.

- Outside dimensions: 872 mm (high) x 460 mm (wide) x 343 mm (depth).
- Including NH Fuse strip-type switch-disconnector.



Standard cabinets (Including BTVC switch-disconnector)

Item	Code	EAN 13	Characteristics	Pack
DU 2 BTVC cabinet	0150010	8432710500105	2 BTVC-400+N Cabinet KVS-00	1
DU 3 BTVC cabinet	0150015	8432710500150	3 BTVC-400+N Cabinet KVS-00	1
DU 4 BTVC cabinet	0150020	8432710500204	4 BTVC-400+N Cabinet KVS-00	1

Standard cabinets ground fixing system (Including BTVC switch-disconnector)

Item	Code	EAN 13	Characteristics	Pack
DU/FH 2 BTVC cabinet	0150025	8432710500259	2 BTVC-400+N	1
DU/FH 3 BTVC cabinet	0150030	8432710500303	3 BTVC-400+N	1
DU/FH 4 BTVC cabinet	0150035	8432710500358	4 BTVC-400+N	1

Standard cabinets (Including BTVA switch-disconnector)

Item	Code	EAN 13	Characteristics	Pack
DU 2 BTVA cabinet	0150040	8432710500402	2 BTVA-400+N	1
DU 3 BTVA cabinet	0150045	8432710500457	3 BTVA-400+N	1
DU 4 BTVA cabinet	0150050	8432710500501	4 BTVA-400+N	1

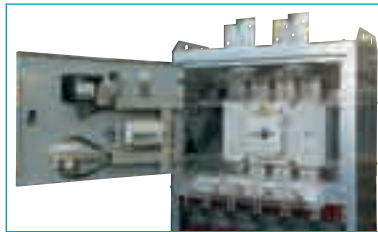
Standard cabinets ground fixing system (Including BTVA switch-disconnector)

Item	Code	EAN 13	Characteristics	Pack
DU/FH 2 BTVA cabinet	0150055	8432710500556	2 BTVA-400+N	1
DU/FH 3 BTVA cabinet	0150060	8432710500600	3 BTVA-400+N	1
DU/FH 4 BTVA cabinet	0150065	8432710500655	4 BTVA-400+N	1

Standard cabinet post fixing system (including BTVC switch-disconnector)

Item	Code	EAN 13	Characteristics	Pack
DU 2 BTVC cabinet	0150075	8432710500754	2 BTVC-400+N	1
DU 3 BTVC cabinet	0150080	8432710500808	3 BTVC-400+N	1
DU 4 BTVC cabinet	0150090	8432710500907	4 BTVC-400+N	1

NEW



Low voltage distributors.

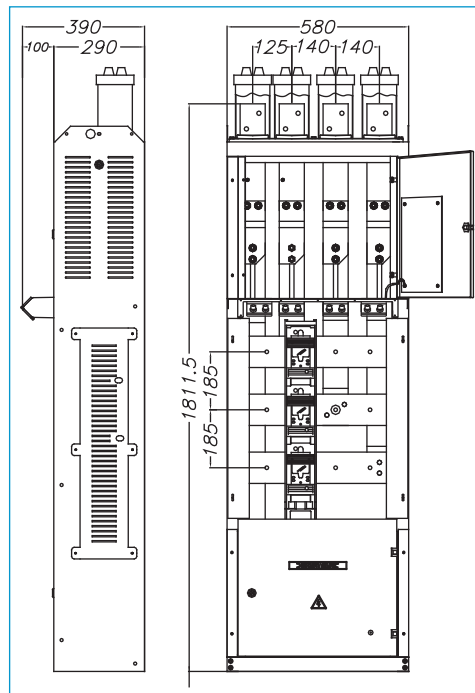
Technical data:

- Galvanised sheet-metal case.
- Rated operational voltage/current: 440 V /1600 A.
- Busbar:
Horizontal: 2 x 80 x 5 phase, 1 x 80 x 5 neutral.
Vertical: 100 x 5 phase, 60 x 5 neutral.
- Control unit: 1600 A on load switch-disconnector.
- Auxiliary connections (emergency connection): 2 x 80 x 5 phase and neutral prongs for connection with M12 screw. It allows a quick connection to the emergency generating equipment using 240 mm cables. The connection is protected by an insulating cap.
- Control unit:
 - Ammeter / maximeter that carries out various different phase metering,
 - Network analyser.

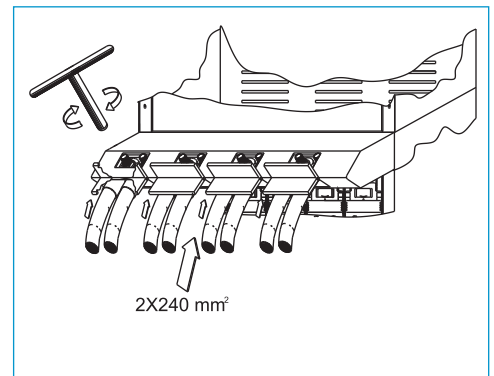
Optional.

- A low voltage board is available including capacitors for reactive energy.

Overall Dimensions



Connection System





Technical data

Internal:

- Safety device that disconnects the board when inside door is opened.
- Includes a characteristics plate and documents in accordance with regulations.
- Inside hinged door allowing easy and safe access.
- Includes an IP 67 grommet for cabling.
- All the current connection bases are individually protected by miniature circuit breaker.

External:

- IP 66, IK 10 polyester cabinet.
- Emergency push button.
- Non-visible fixing devices.
- IP 66 socket interlocking.
- External earthing.
- Includes self adhesive slope-top as an optional fitting.
- Key locking system.

Standard models

CR-PO/2X40A



Item	Code	EAN 13	Dimensions (mm) High x wide x depth	Pack
CR-PO/ 2 x 40A	0192100	8426487423361	515 x 415 x 230	1

Socket			General Circuit Breaker
In (A)	Number of poles	Number of sockets	
 16 A	2P+TT	4	2x40 A

CR-PO/ 4x40A working site board



Item	Code	EAN 13	Dimensions (mm) High x wide x depth	Pack
CR-PO/ 4 x 40A working site board	0192101	8426487423378	515 x 415 x 230	1

Socket			General Circuit Breaker
In (A)	Number of poles	Number of sockets	
 16 A	2P+TT	2	
 16 A	3P+TT	2	4x40 A

Standard models

CR-PO/ 4x63A



Item	Code	EAN 13	Dimensions (mm) High x wide x depth	Pack
CR-PO/ 4x63A	0192102	8426487423385	615 x 415 x 230	1

In (A)	Number of poles	Number of sockets	4x63 A
 16 A	2P+TT	2	
 16 A	3P+TT	3	
Fixed uses		Outlets to terminals	
 32 A	3P+N+TT	1	

Note: 300 mA independent circuit breaker for crane connection.

CR-PO/ 4x125A



Item	Code	EAN 13	Dimensions (mm) High x wide x depth	Pack
CR-PO/ 4x125A	0192103	8426487423392	735 x 535 x 270	1

In (A)	Number of poles	Number of sockets	4x125 A
 16 A	2P+TT	2	
 16 A	3P+TT	3	
 32 A	3P+TT	2	
Fixed uses		Terminal Outlet	
 63 A	3P+N+TT	1	

Note: 300 mA independent circuit breaker for crane connection.

Standard models

CR-PO/ 4x100A



Item	Code	EAN 13	Dimensions (mm) High x wide x depth	Pack
CR-PO/ 4x100A	0192063	8426487430369	615 x 415 x 230	1

In (A)	Number of poles	Number of sockets	4x100 A
 16 A	2P+TT	2	
 16 A	3P+N+TT	1	
 32 A	3P+N+TT	1	
 63 A	3P+N+TT	1	

Note: 300 mA independent circuit breaker for crane connection (63 A current socket).

Modular enclosure system “Combiester”.



Built according to the standards:

UNE-EN 60.439-3.

Materials

- Bases: reinforced glass fibre polyester.
- Covers: polycarbonate.

Empty enclosure.



Item	Code	EAN 13	Dimmensions	Pack
Enclosure PX-00-85 H	0141002	8432710410022	720x400x215	1
Enclosure PX-00-84 H	0141005	8432710410053	720x360x215	1
Enclosure PX-00-74	0141050	8432710410503	630x400x219	1
Enclosure PX-00-73	0141055	8432710410558	630x300x219	1
Enclosure PX-00-66 H	0141007	8432710410077	540x540x215	1
Enclosure PX-00-66	0141010	8432710410107	540x540x174	1
Enclosure PX-00-64	0141015	8432710410152	540x360x174	1
Enclosure PX-00-64 H	0141020	8432710410206	540x360x215	1
Enclosure PX-00-63	0141025	8432710410251	540x270x174	1
Enclosure PX-00-44	0141030	8432710410305	360x360x174	1
Enclosure PX-00-43	0141033	8432710410336	360x270x174	1
Enclosure PX-00-42	0141035	8432710410350	360x180x174	1
Enclosure PX-00-33	0141040	8432710410404	270x270x174	1

Accessories.



Item	Code	EAN 13	Characteristics	Pack
Meter Plate P-3 T/85	0148010	8432710480100	For 3C triple-phase	5
Meter Plate P-3 T/74	0148011	8432710480117	For 3C triple-phase	5
Meter Plate P-4 M/84	0148012	8432710480124	For 4C single-phase	5
Meter Plate P-4 M/73	0148013	8432710480131	For 4C single-phase	5
Meter Plate P-6 M/6	0148005	8432710480056	For 6C single-phase	5
Meter Plate P-3 M/64	0148025	8432710480254	For 3C single-phase	5
Meter Plate P-3 M/63	0148020	8432710480209	For 3C single-phase	5
Meter Plate P-1 M/33	0148030	8432710480308	For 1C single-phase	5
Meter Plate P-1 M/42	0148032	8432710480322	For 1C single-phase	5
Meter Plate P-2 M/43	0148034	8432710480346	For 2C single-phase	5
Meter Plate P-2 M/44	0148036	8432710480360	For 2C single-phase	5
Meter Plate P-3 T/64	0148040	8432710480407	For 3C triple-phase	5
Meter Plate P-1 T/63	0148055	8432710480551	For 1C triple-phase	5
PC cover PC-66	0148065	8432710480650	For Box PX 66	5
PC cover PC-64	0148070	8432710480704	For Box PX 64	5
PC cover PC-63	0148075	8432710480759	For Box PX 63	5
PC cover PC-42	0148085	8432710480858	For Box PX 42	5



Protecting and Measuring Boxes and Cabinets.

Materials

- Bases: reinforced glass fibre polyester.
- IP55.

Transparent cover empty modules.

Item	Code	EAN 13	Characteristics	Pack
MU-00-M	0131025	8432710310254	370x185x162	1
MUL	0131030	8432710310308	277x185x163	1

Transparent cover assembled modules.

Item	Code	EAN 13	Characteristics	Pack
MU-0-M	0132300	8432710323001	For 1 single-phase counter	1
MU-101-M	0132305	8432710323056	For 1 mono. 1 ZRB-50 and termin.	1
PX-01 M	0142305	8432710423053	For 1 single-phase (PX-33)	1
PX5-1 M	0142315	8432710423152	For 1 single-phase (PX-33)+1DO2	1

Electrical meters enclosures "DYCOTANS".



Item	Code	EAN 13	Characteristics	Pack
Box DC-00-V	0130220	8432710302204	With vision panel	1
Box DC-00-V-R	0130225	8432710302259	With vision panel and ventilation	1
Box DC-0-V	0130230	8432710302303	With vision panel and plate	1
Box DC-0-V-R	0130235	8432710302358	With vision panel, plate and ventilation	1
Box DC-101-V	0130240	8432710302402	With vision panel, plate, 1 fuse holder (22x58) and neuter terminal	1
Box DC-101-V-R	0130245	8432710302457	With vision panel, plate, 1 fuse holder (22x58) and ventilation	1
Box DC-101-C-V-R-	0130255	8432710302556	With vision panel, plate, 1 fuse holder (22x58), neuter terminal, ventilation and cabling	1
Box DC-0033	0130410	8432710304109	Empty	1
Box DC-0033-V	0130420	8432710304208	With vision panel	1
Box DC-033	0130430	8432710304307	With blind plate	1
Box DC-1.M-33-V	0130440	8432710304406	With vision panel for 1 single-phase	1
Box DC-1.M-33-V-R	0130450	8432710304505	With vision panel, plate for 1 single-phase and ventilation	1
Box DC-101-33-V-R	0130460	8432710304604	With vision panel, plate for 1 single-phase, ventilation, terminal and fuse holder (22x58)	1
Box DC-101-33-C.V.R.	0130470	8432710304703	With vision panel, plate for 1 single-phase, ventilation, cabling terminal and fuse holder (22x58)	1

Accessories.



Item	Code	EAN 13	Characteristics	Pack
Vision panel 92x92	0130805	8432710308053	U.V. rays resistant	10
Vision panel 120X120	0130810	8432710308107	U.V. rays resistant	10
Vision panel 190X150	0130812	8432710308121	U.V. rays resistant	10
Rubber joint 3X7X1000 mm	0130820	8432710308206	For vision panel stagnancy	10

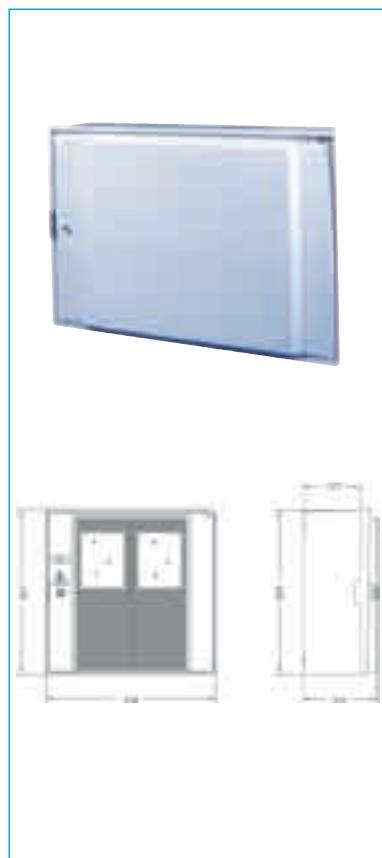
Electrical meters enclosures "GLM".

- Reinforced glass fibre polyester.
- Vision panel made of U.V. polycarbonate.
- Self-ventilated interior to prevent condensations.
- IP 43.
- IK 09.
- Built according to the standards:
UNE-EN 60439.

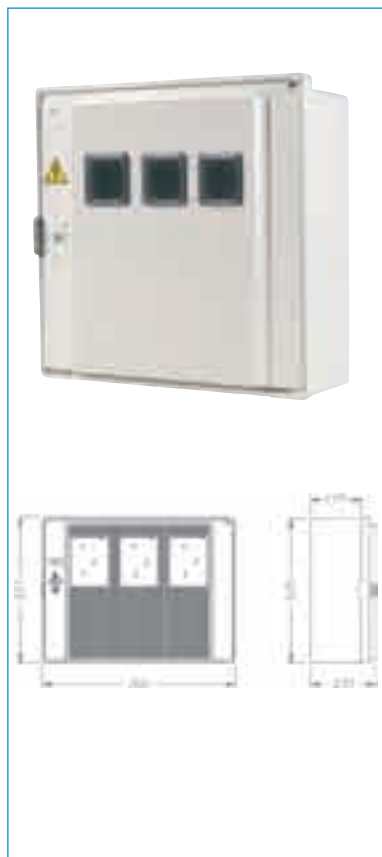
Item	Code	EAN 13	Characteristics	Pack
Cabinet GLM-0	0135005	8432710350052	Empty	1
Cabinet GLM-0 1M/T	0135010	8432710350106	With meter plate and accessories	1
Cabinet GLM-0 1MP	0135015	8432710350151	With meter plate and accessories, 2 fuse holders (22x58), 1 neutral tube 2 50 mm ² metallic terminals 1 Earth metallic terminal	1
Cabinet GLM-0 1TP	0135020	8432710350205	With meter plate and accessories, 4 fuse holders (22x58), 1 neutral tube 4 50 mm ² metallic terminals 1 Earth metallic terminal	1
Cabinet GLM-0 1MP C	0135025	8432710350250	With meter plate and accessories, 2 fuse holders (22x58), 1 neutral tube 2 50 mm ² metallic terminals 1 Earth metallic terminal Cabling	1
Cabinet GLM-0 1TP C	0135030	8432710350304	With meter plate and accessories, 4 fuse holders (22x58), 1 neutral tube 4 50 mm ² metallic terminals 1 Earth metallic terminal Cabling	1
Cabinet GLM-1	0135105	8432710351059	Empty and PC cover	1
Cabinet GLM-1 C/P. Blind	0135106	8432710351066	Empty cover and plate	1
Cabinet GLM-1 water	0135107	8432710351073	Empty and PC cover	1
Cabinet GLM-1 gas	0135108	8432710351080	Empty and PC cover	1
Cabinet GLM-1 V	0135110	8432710351103	With 2 vision panels	1
Cabinet GLM-1 1MR	0135115	8432710351158	With meter plate and accessories 2 vision panels	1
Cabinet GLM-1 1MRP	0135120	8432710351202	With meter plate and accessories, 2 fuse holders (22x58), 1 neutral tube 2 50 mm ² metallic terminals 1 Earth bimetal terminal	1
Cabinet GLM-1 1MRP DO	0135125	8432710351257	With meter plate and accessories, 1 fuse holder (D O), 1 neutral sect. 2 50 mm ² metallic terminals 1 Earth metallic terminal	1
Cabinet GLM-1 1MRP C	0135130	8432710351301	With meter plate and accessories, 2 fuse holders (22x58), 1 neutral tube 2 50 mm ² metallic terminals 1 Earth metallic terminal Cabling	1
Cabinet GLM-1 1MRP DO C	0135135	8432710351356	With meter plate and accessories, 1 fuse holder (D O), 1 neutral sect. 2 50 mm ² metallic terminals 1 Earth bimetal terminal Cabling	1



Electrical meters enclosures "GLM".



Item	Code	EAN 13	Characteristics	Pack
Cabinet GLM-2	0135205	8432710352056	Empty and blind cover	1
Cabinet GLM-2 C/P.blind	0135206	8432710352063	Blind cover and plate	1
Cabinet GLM-2 V	0135210	8432710352100	Empty with 2 vision panels	1
Cabinet GLM-2 1MR/TR	0135215	8432710352155	With meter plate, accessories and 2 vision panels	1
Cabinet GLM-2 2M/T	0135220	8432710352209	With meter plate, accessories and 2 vision panels	1
Cabinet GLM-2 1MRP	0135225	8432710352254	With meter plate and accessories, 2 fuse holders (22x58), 1 neuter tube 2 50 mm2 metallic terminals 1 Earth metallic terminal	1
Cabinet GLM-2 1MRP DO	0135227	8432710352278	With meter plate and accessories, 1 fuse holder (D O), 1 neutral sect. 2 50 mm2 metallic terminals 1 Earth metallic terminal	1
Cabinet GLM-2 2MP	0135230	8432710352308	With meter plate and accessories, 4 fuse holders (22x58), 2 neutral tubes 4 50 mm2 metallic terminals 2 Earth metallic terminals	1
Cabinet GLM-2 2MP DO	0135232	8432710352322	With meter plate and accessories, 2 fuse holder (D O), 1 neutral sect. 4 50 mm2 metallic terminals 2 Earth metallic terminals	1
Cabinet GLM-2 1TRP	0135235	8432710352353	With meter plate and accessories, 4 fuse holders (22x58), 1 neutral tube 4 50 mm2 metallic terminals 2 Earth metallic terminals	1
Cabinet GLM-2 1TRP DO	0135237	8432710352377	With meter plate and accessories, 3 fuse holder (D O), 1 neutral sect. 4 50 mm2 metallic terminals 1 Earth metallic terminal	1
Cabinet GLM-2 1MRP C	0135250	8432710352506	With meter plate and accessories, 2 fuse holders (22x58), 1 neutral tube 2 50 mm2 metallic terminals 1 Earth metallic terminal Cabling	1
Cabinet GLM-2 2MP C	0135255	8432710352551	With meter plate and accessories, 4 fuse holders (22x58), 1 neutral tube 4 50 mm 2 metallic terminals 2 Earth metallic terminals Cabling	1
Cabinet GLM-2 1TRP C	0135260	8432710352605	With meter plate and accessories, 4 fuse holders (22x58), 1 neutral tube 4 50 mm2 metallic terminals 1 Earth metallic terminal Cabling	1
Cabinet GLM-2 1MRP DO C	0135265	8432710352650	With counter plate and accessories, 1 fuse holder (D O), 1 neuter sect. 2 50 mm2 metallic terminals 1 Earth metallic terminal Cabling	1
Cabinet GLM-2 2MP DO C	0135270	8432710352704	With meter plate and accessories, 2 fuse holder (D O), 2 neutral sect. 4 50 mm2 metallic terminals 2 Earth metallic terminals Cabling	1
Cabinet GLM-2 1TRP DO C	0135275	8432710352759	With meter plate and accessories, 3 fuse holder (D O), 1 neutral sect. 4 50 mm2 metallic terminals 1 Earth metallic terminal Cabling	1



Electrical meters enclosures "GLM".

Item	Code	EAN 13	Characteristics	Pack
Cabinet GLM-3	0135305	8432710353053	Empty and blind cover	1
Cabinet GLM-3 C/P. blind	0135306	8432710353060	Blind cover and plate	1
Cabinet GLM-3 V	0135310	8432710353107	Empty with 3 vision panels	1
Cabinet GLM-3 2MR/TR	0135315	8432710353152	With counter plate, accessories and 3 vision panels	1
Cabinet GLM-3 3M/T	0135320	8432710353206	With counter plate, accessories and 3 vision panels	1
Cabinet GLM-3 2MRP	0135325	8432710353251	With counter plate and accessories, 4 fuse holders (22x58), 2 neuter tubes 4 50 mm ² bimetal terminals 2 Earth bimetal terminals	1
Cabinet GLM-3 2TRP	0135330	8432710353305	With counter plate and accessories, 4 fuse holders (22x58), 1 neuter tube 4 50 mm ² bimetal terminals 1 Earth bimetal terminal	1
Cabinet GLM-3 2MRP DO	0135335	8432710353350	With counter plate and accessories, 2 fuse holders (D O), 2 neuter sect. 4 50 mm ² bimetal terminals 2 Earth bimetal terminals	1
Cabinet GLM-3 2TRP DO	0135340	8432710353404	With counter plate and accessories, 3 fuse holder (D O), 1 neuter sect. 4 50 mm ² bimetal terminals 1 Earth bimetal terminal	1
Cabinet GLM-3 2MRP C	0135350	8432710353503	With counter plate and accessories, 4 fuse holders (22x58), 2 neuter tubes 4 50 mm ² bimetal terminals 2 Earth bimetal terminals Cabling	1
Cabinet GLM-3 2TRP C	0135355	8432710353558	With counter plate and accessories, 4 fuse holders (22x58), 1 neuter tube 4 50 mm ² bimetal terminals 2 Earth bimetal terminals Cabling	1
Cabinet GLM-3 2MRP DO C	0135360	8432710353602	With counter plate and accessories, 2 fuse holders (D O), 2 neuter sect. 4 50 mm ² bimetal terminals 2 Earth bimetal terminals Cabling	1
Cabinet GLM-3 2TRP DO C	0135365	8432710353657	With counter plate and accessories, 3 fuse holder (D O), 1 neuter sect. 4 50 mm ² bimetal terminals 1 Earth bimetal terminals Cabling	1

Cable junction boxes “Dybox-90”.



- Made of high quality thermoplastics.
- RAL 7035 (Light grey)
- Protection degrees:
 - IP 54 with cable glands CEST type
 - IP 65 with cable glands
- Stainless steel screws
- Variable terminal mount with metric knock outs for cable entry

Item	Code	EAN 13	Characteristics	Pack
DYBOX-90-320	0184005	8432710840058	88x88x47	5
DYBOX-90-340	0184010	8432710840102	98x98x52	5
DYBOX-90-020	0184015	8432710840157	88x88x53	5
DYBOX-90-040	0184020	4012591604341	98x98x58	5
DYBOX-90-060	0184025	4012591604372	139x119x70	5
DYBOX-90 100	0184030	4012591604389	167x125x82	5
DYBOX-90 250	0184035	4012591604396	200x160x98	2
DYBOX-90 500	0184040	8432710840409	210x310x116	1

Accessories.



Item	Code	EAN 13	Characteristics	Pack
Terminal CDKL 04 of 2,5/4 mm	0184305	8432710843059	5 poles, cable 2,5/4 mm ²	25
Terminal CKKL 06 of 6 mm	0184310	8432710843103	5 poles, cable 6 mm ²	15
Terminal CKLS 10 of 10 mm	0184315	8432710843158	5 poles, cable 10 mm ²	1
Terminal CKLS 25 of 25 mm	0184320	8432710843202	5 poles, cable 25 mm ²	1
Terminal CKLS 54 of 50 mm	0184325	8432710843257	5 poles, cable 50/70 mm ²	1
Terminal CKLS 55 of 25/50 mm	0184330	8432710843301	5 poles, cable 35 mm ²	1
CEST Cable Gland 13,5 of 6,5/13 mm	0184405	8432710844056	Ø minimum 9 mm	20
CEST Cable Gland 16 6,5/16 mm	0184410	8432710844100	Ø minimum 9 mm	20
CEST Cable Gland 21 9/20 mm	0184415	8432710844155	Ø minimum 9 mm	20
CEST Cable Gland 29 17/28 mm	0184420	8432710844209	Ø minimum 17 mm	10

Cable junction series “Dybox-80”.



Item	Code	EAN 13	Characteristics	Pack
DYBOX-80-2200	0182030	8432710820302	220x170x104	5
DYBOX-80-2800	0182035	8432710820357	280x220x115	5

Accessories.

Item	Code	EAN 13	Characteristics	Pack
Cable Gland N. 1	0182050	8432710820500	Ø maximum 18 mm	50
Cable Gland N. 2	0182055	8432710820555	Ø maximum 25 mm	50
Cable Gland N. 3	0182060	8432710820609	Ø maximum 32 mm	50



Cable junction boxes "DYBOX".

- Enclosures are made of 0,6 to 1,5 steel with epoxi surface treatment
- RAL 7001 (Grey colour)
- IP54-IIC08

Item	Code	EAN 13	Characteristics	Pack
DYBOX-800	0181005	8432710810051	80x80x35	20
DYBOX-1000	0181010	8432710810105	100x100x40	20
DYBOX-1250	0181015	8432710810150	125x125x50	20
DYBOX-1500	0181020	8432710810204	150x150x55	20
DYBOX-2160	0181025	8432710810259	200x160x65	10
DYBOX-2500	0181030	8432710810303	250x200x85	5
DYBOX-3000	0181035	8432710810358	300x250x100	2

Cable junction boxes "Dypol".



- Enclosures are made of light weight aluminium with epoxi surface treatment.
- RAL 7035 (Grey colour).
- IP 64, IK 07 (IK05 in DYPOL 800).

Item	Code	EAN 13	Characteristics	Pack
DYPOL-800	0183005	8432710830059	96x96x54	20
DYPOL-1000	0183010	8432710830103	116x116x60	20
DYPOL-1250	0183015	8432710830158	136x136x73	10
DYPOL-1500	0183020	8432710830202	166x166x84	10
DYPOL-2160	0183025	8432710830257	216x176x107	5
DYPOL-2500	0183030	8432710830301	255x215x128	5
DYPOL-3000	0183035	8432710830356	306x306x116	2

Circuit breaker boxes "CA-90" .



- Made of high quality thermoplastic.
- RAL 7035 (Light grey).
- IP 65.
- For the installation of DIN rail equipment, top hat profile 35mm.
- Reversible opening transparent cover.
- With integrated membranes for conovit installation.

Item	P.V.P. / ud	Code	EAN 13	Characteristics	Pack
Box CA 9103		0170005	8432710700055	1 Line with 3 div.	1
Box CA 9104		0170010	8432710700109	1 Line with 4 div.	1
Box CA 9106		0170015	8432710700154	1 Line with 6 div.	1
Box CA 9109		0170020	8432710700208	1 Line with 9 div.	1
Box CA 9112		0170025	8432710700253	1 Line with 12 div.	1
Box CA 9118		0170030	8432710700307	1 Line with 18 div.	1
Box CA 9224		0170035	8432710700352	2 Lines with 12 div.	1
Box CA 9336		0170040	8432710700406	3 Lines with 12 div.	1
Box CA 9236		0170045	8432710700451	2 Lines with 18 div.	1
Box CA 9448		0170050	8432710700505	4 Lines with 12 div.	1
Box CA 9354		0170055	8432710700550	3 Lines with 18 div.	1

Accessories.

Item	P.V.P. / ud	Code	EAN 13	Characteristics	Pack
Terminal CA NP-03		0170205	8432710702059	For CA 9103	1
Terminal CA NP-04		0170210	8432710702103	For CA 9104	1
Terminal CA NP-06		0170215	8432710702158	For CA 9106	1
Terminal CA NP-09		0170220	8432710702202	For CA 9109	1
Terminal CA NP-12		0170225	8432710702257	For CA 9112, 9118	1
Terminal CA NP-20		0170230	8432710702301	For CA 9236	1
Terminal CA NP-25		0170235	8432710702356	For CA 9336, 9236, 9448, 9354	1



Modular Telecommunications Installations Area.

- Surface mounted cabinet for the installation of main metering corresponding TB+ISDN, CATV and LMDS operators.
- This modular type cabinet is installed in buildings with up to 45 homes and in detached housing complexes of up to 10 houses.
- Manufactured in 2 mm sheet steel.
- Completely modular.
- Fire and water proof wood for fixing main metering devices.
- Safety lock.

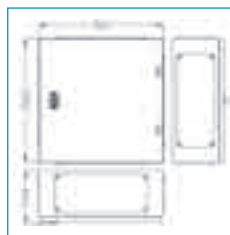
Item	Code	EAN 13	Dimensions mm A x B x C	Pack
ICT-RITM	0177078	8426487421060	2000x1000x500	1



Junction inspection boxes.

- RAL 9010 colour metal cabinet, for joining both upper and lower external channelling and junctions.
- Lower: measurements 452 x 452 x 154 mm.
- Upper: measurements 362 x 362 x 154 mm.
- Side, upper and lower cabling inlets.
- IP 33, IK07 level protection.
- Metal key locking.

ICT-RE 3636



ICT-RE 4545



Item	Code	EAN 13	Characteristics	Pack
ICT-RE 4545	0177010	8432710770102	Lower junction inspection boxes 452 x 452 x 154 mm	1/30
ICT-RE 3636	0177012	8432710770126	Upper junction inspection boxes 362 x 362 x 154 mm	1/30



Main inspection box.

- RAL 9010 colour metal cabinet.
- Various measurements depending upon the size of the building.
- For locating in the – Lower Telecommunications Installation Area - (TB+ISDN and CATV services) where interconnection is made with the service operators and the RITS – Upper Telecommunications Area (RTV service).
- Fire and water proof wood base for fixing TB+ISDIV terminal strips.

Item	Code	EAN 13	Characteristics	Pack
ICT-RP 4030	0177000	8432710770003	Main inspection box 402 x 302 x 154 mm with a capacity for ten 10-pair terminal strips	1/30
ICT-RP 4050	0177001	8432710770010	Main inspection box 402 x 502 x 154 mm with a capacity for fourteen 10-pair terminal strips	1/30
ICT-RP 7050	0177002	8432710770027	Main inspection box 702 x 502 x 154 mm with a capacity for 2 lines of 22 ten-pair terminal strips	1/16



Secondary horizontal inspection boxes.

- RAL 9010 colour metal cabinet.
- Used for access to telecommunication services to the homes on each floor.
- The minimum measurements are:
 - 450 x 450 x 150 mm:
 - Buildings with up to 3 flats per floor up to a maximum of 20.
 - Buildings with up to 4 flats per floor up to a maximum of 5.
 - In each change of direction and every 30 metres in main channelling.
 - 500 x 700 x 150 mm:
 - Buildings with between 21 and 30 flats.
 - Buildings with less than 20 flats and always provided they exceed the previously mentioned limits.
 - 550 x 1000 x 150 mm:
 - Buildings with more than 30 flats.
- IP 3X, IK07 level of protection.
- Fire and water proof wood base for fixing the various devices.
- Metal key locking.

Secondary surface mounted inspection boxes

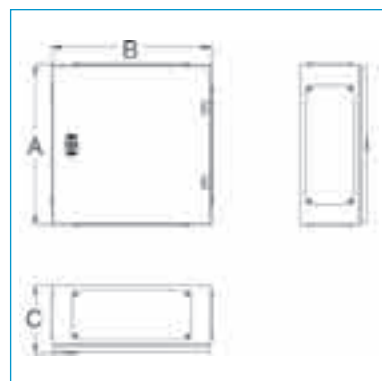
Item	Code	EAN 13	Dimensions mm A x B x C	Pack
ICT-RS 4545	0177020	8432710770201	452x452x154	1/30
ICT-RS 5070	0177026	8432710770263	502x702x154	1/30
ICT-RS 55100	0177021	8432710770218	552x1002x154	1/16

Secondary built-in inspection boxes

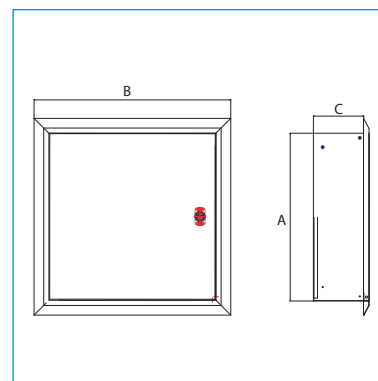
Item	Code	EAN 13	Dimensions mm A x B x C	Pack
ICT-RS 4545 E	0177022	8432710770225	530x530x150	1/30
ICT-RS 5070 E	0177027	8432710770270	580x780x150	1/30
ICT-RS 55100 E	0177023	8432710770232	630x1080x150	1/16

Secondary built-in inspection boxes with closed sides

Item	Code	EAN 13	Dimensions mm A x B x C	Pack
ICT-RS 4545 EC	0177024	8432710770249	530x530x150	1/30
ICT-RS 5070 EC	0177028	8432710770287	565x765x154	1/30
ICT-RS 55100 EC	0177025	8432710770256	595x1065x154	1/16



Surface measurements diagramme



Built-in measurements diagramme

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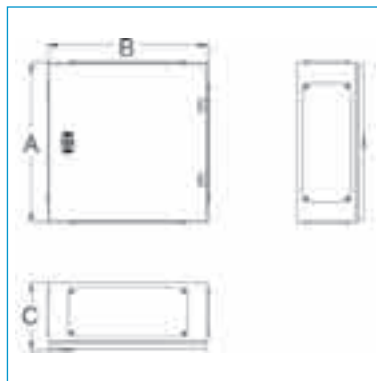
Secondary vertical inspection boxes.

Secondary surface mounted inspection boxes

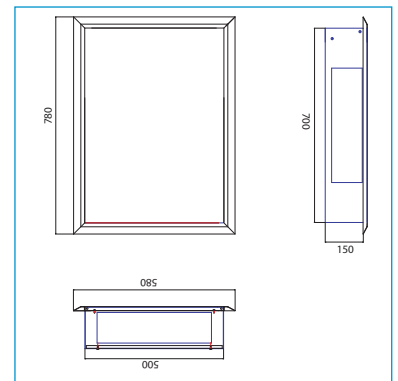
Item	Code	EAN 13	Dimensions mm A x B x C	Pack
ICT - RP 7050	0177002	8432710770027	702x502x154	1/16
ICT - RS 10055 V	0177018	8432710770188	1002x552x154	1/16

Secondary built-in inspection boxes

Item	Code	EAN 13	Dimensions mm A x B x C	Pack
ICT - RS 7050 EV	0177016	8432710770164	780x580x150	1/16
ICT - RS 10055 EV	0177017	8432710770171	1080x630x150	1/16



Surface measurements diagramme



Built-in measurements diagramme

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Frame-Door for secondary inspection boxes.

- Frame-Door kit for closing the opening where the installation has been made.
- IP 3X level protection
- Metal key locking.
- Includes fire and water proof wood base.

Item	Code	EAN 13	Dimensions mm A x B x C	Pack
ICT - Frame-Door 4545	0177072	8432710770720	530x530x15	1/30
ICT - Frame-Door 5070	0177073	8432710770737	580x780x15	1/30
ICT - Frame-Door 55100	0177074	8432710770744	630x1080x15	1/16
ICT - Frame-Door 7050 V	0177076	8432710770768	780x580x15	1/30
ICT - Frame-Door 10055 V			1080x630x15	1/16

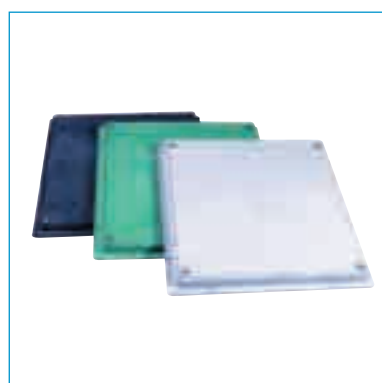
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Secondary inspection boxes for detached housing.

- These will be located at the dividing points towards the housing and must have minimum measurements 450 x 450 x 150 mm.
- SMC white polyester cabinet.
- IP 43 level protection.
- IK 09 level impact protection.
- Triangular key lock.
- Suitable for outdoor use, using a shuttering system for protection.

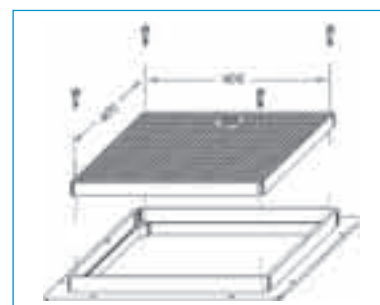
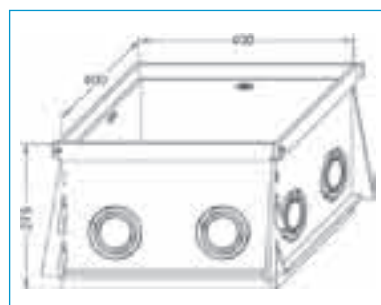
Item	Code	EAN 13	Dimensions mm A x B x C	Pack
Cabinet GLM-2 ICT	0177019	8432710770195	536x521x231	



Built-in floor inspection box.

- For use as a secondary inspection box when the main channelling is underground.
- For use as an entry inspection box in buildings with a maximum of 20 homes.
- Lightweight and adjustable to required measurements.
- Supplied flat folded.
- Includes cover and frame.
- Measurements: 400 x 400 x 275 mm.

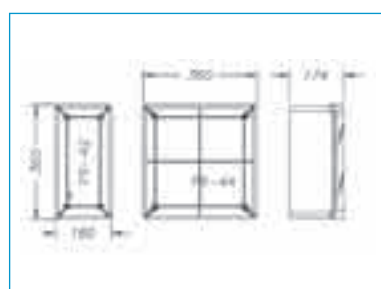
Item	Code	EAN 13	Characteristics	Pack
ICT-AR4040	0177030	8432710770300	Underground channelling Inspection box	1
ICT-AR4040 FRAME	0177031	8432710770317	Box frame ICT-AR4040	1
ICT-AR4040 COVER	0177032	8432710770324	Box cover ICT-AR4040	1
COVER-FRAME KIT	0177033	8432710770331	Cover-frame kit ICT-AR4040 inspection box	1
AR4040 KIT	0177034	8432710770348	Complete kit - box + frame +cover	



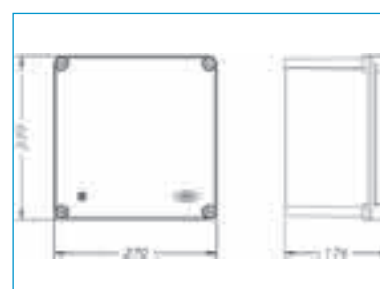
Passage inspection box.

- Passage inspection boxes Types A, B, C.
Type A: Are positioned in common stretches of secondary channelling
Minimum measurements: 360 x 360 x 120 mm.
Type B: Are positioned in access stretches to housing and in internal TB+ISDN user channelling.
Minimum measurements: 100 x 100 x 40 mm.
Type C: Are positioned in internal TLCA, RTV and SAFI user channelling.
Minimum measurements: 100 x 160 x 40 mm.
- Insulated material box for positioning in user secondary or interior.
- IP 33.5 level protection.

Item	Code	EAN 13	Characteristics	Pack
ICT-RPA 2727	0177040	8432710770409	Box type B and C 270x270x174 mm	1/30
ICT-RPA 3636	0177055	8432710770553	Box type A 360x360x174 mm	1/30



ICT-RPA 2727



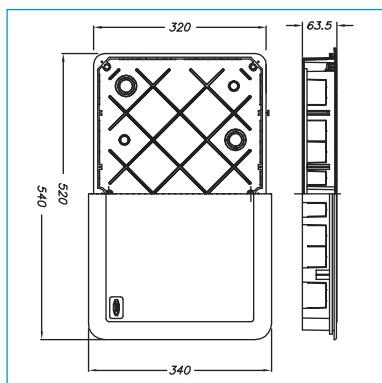
ICT-RPA 3636



Network termination inspection box

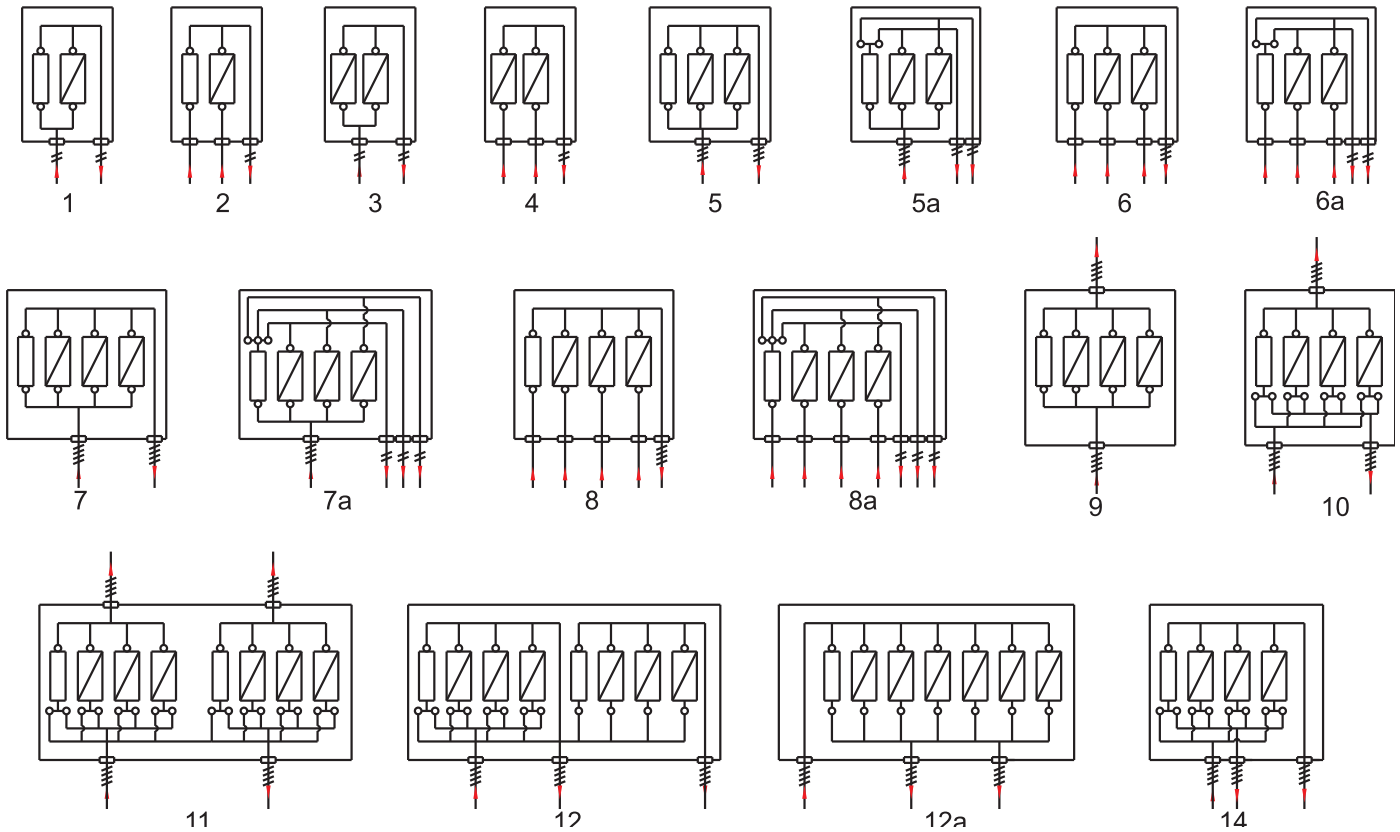
- Joint inspection box, made of plastic, to house the PAU of each telecommunication service.
- IP 33.5 level protection
- Side and back entries, easy to break.
- Body measurements: 320 x 520 x 63 mm.
- Cover measurements: 340 x 540 x 5 mm.

Item	Code	EAN 13	Characteristics	Pack
ICT-TR 3050	0177050	8432710770508	Joint inspection box for TB+RDSI, RTV, TLCA	3/132



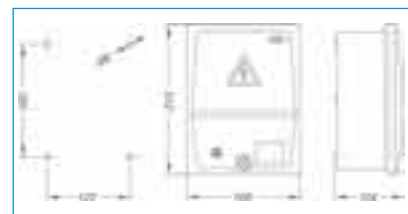
- Designed to protect the general power lines up to 630 A integrating fuse carriers with or without arc extinguishing device.
- UNE 21305-compliant, class-F, thermal casings.
- UNE 20324-compliant, IP 41 protection level in working position for higher outputs and IP 43 protection level for lower input and output. UNE 50102-compliant, IK09 shockproof level.
- Built in compliance with the following standards:
 - UNE-EN 60439/1
 - RU 1403 D
 - N 13 E 15 (Hidrocantábrico)
 - GE>NNL 010 (Endesa)
 - NI 76.50.01 (Iberdrola)
 - E.T.U. Fenosa

Electrical diagrams





Item	Code	EAN 13	Characteristics	Pack
GL-40 SCHE. 1 and 2	0120010	8432710200104	1-ZRB-50+N	1
GL-40 SCHE. 3 and 4	0120015	8432710200159	2-ZRB-50	1
GL-40 SCHE. 5 and 6	0120020	8432710200203	2-ZRB-50+N	1
GL-40 SCHE. 7 and 8	0120025	8432710200258	3-ZRB-50+N	1
GL-40 SCHE. 9	0120030	8432710200302	3-ZRB-50+N	1
GL-40 SCHE. 1 and 2 2 BB	0120050	8432710200500	1-ZRB-50+N	1
GL-40 SCHE. 1 and 2 4 BB	0120055	8432710200555	1-ZRB-50+N	1
GL-40 SCHE. 7 and 8 4 BB	0120060	8432710200609	3-ZRB-50+N	1
GL-40 SCHE. 7 and 8 8 BB	0120065	8432710200654	3-ZRB-50+N	1
GL-40 SCHE. 9 8 BB	0120070	8432710200708	3-ZRB-50+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-40-P SCHE. 1 and 2	0120080	8432710200807	1-ZRB-50+N	1
GL-40-P SCHE. 3 and 4	0120082	8432710200821	2-ZRB-50	1
GL-40-P SCHE. 5 and 6	0120084	8432710200845	2-ZRB-50+N	1
GL-40-P SCHE. 7 and 8	0120086	8432710200869	3-ZRB-50+N	1
GL-40-P SCHE. 9	0120088	8432710200883	3-ZRB-50+N	1
GL-40-P SCHE. 1 and 2 2BB	0120092	8432710200920	1-ZRB-50+N	1
GL-40-P SCHE. 1 and 2 4BB	0120094	8432710200944	1-ZRB-50+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-63 SCHE. 1 and 2	0120105	8432710201057	1-ZRB-100+N	1
GL-63 SCHE. 3 and 4	0120110	8432710201101	2-ZRB-100	1
GL-63 SCHE. 5 and 6	0120115	8432710201156	2-ZRB-100+N	1
GL-63 SCHE. 7 and 8	0120120	8432710271200	3-ZRB-100+N	1
GL-63 SCHE. 9	0120125	8432710201255	3-ZRB-100+N	1
GL-63 SCHE. 1 and 2 2BB 50 mm	0120160	8432710201606	1-ZRB-100+N	1
GL-63 SCHE. 1 and 2 4BB 50 mm	0120165	8432710201651	1-ZRB-100+N	1
GL-63 SCHE. 7 and 8 4BB 50 mm	0127170	8432710271705	3-ZRB-100+N	1
GL-63 SCHE. 7 and 8 8BB 50 mm	0120175	8432710201750	3-ZRB-100+N	1
GL-63 SCHE. 9 8BB 50 mm	0120180	8432710201804	3-ZRB-100+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-63-P SCHE. 1 and 2	0127192	8432710271927	1-ZRB-100+N	1
GL-63-P SCHE. 3 and 4	0120193	8432710201934	2-ZRB-100	1
GL-63-P SCHE. 5 and 6	0120194	8432710201941	2-ZRB-100+N	1
GL-63-P SCHE. 7 and 8	0120195	8432710201958	3-ZRB-100+N	1
GL-63-P SCHE. 1 and 2 - 2 BB 50 mm	0120197	8432710201972	1-ZRB-100+N	1
GL-63-P SCHE. 7 and 8 - 4 BB 50 mm	0120199	8432710201996	3-ZRB-100+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-80/100 SCHE. 1 and 2	0120107	8432710201071	1-ZRB-100+N	1
GL-80/100 SCHE. 3 and 4	0120112	8432710201125	2-ZRB-100	1
GL-80/100 SCHE. 5 and 6	0120117	8432710201170	2-ZRB-100+N	1
GL-80/100 SCHE. 7 and 8	0120122	8432710201224	3-ZRB-100+N	1
GL-80/100 SCHE. 9	0120127	8432710201279	3-ZRB-100+N	1
GL-80/100 ESQ.1 and 2 2 BB 50 mm	0120162	8432710201620	1-ZRB-100+N	1
GL-80/100 ESQ.1 and 2 4 BB 50 mm	0120167	8432710201675	1-ZRB-100+N	1
GL-80/100 SCHE. 7 and 8 4 BB 50 mm	0120172	8432710201729	3-ZRB-100+N	1
GL-80/100 SCHE. 7 and 8 8 BB 50 mm	0120177	8432710201774	3-ZRB-100+N	1
GL-80/100 SCHE. 9 8 BB 50 mm	0120182	8432710201828	3-ZRB-100+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-80/100-P SCHE. 1 and 2	0120201	8432710202016	1-ZRB-100+N	1
GL-80/100-P SCHE. 3 and 4	0120202	8432710202023	2-ZRB-100	1
GL-80/100-P SCHE. 5 and 6	0120203	8432710202030	2-ZRB-100+N	1
GL-80/100-P SCHE. 7 and 8	0120204	8432710202047	3-ZRB-100+N	1
GL-80/100-P SCHE. 1 and 2 - 2 BB 50 mm	0120206	8432710202061	1-ZRB-100+N	1
GL-80/100-P SCHE. 7 and 8 - 4 BB 50 mm	0120208	8432710202085	3-ZRB-100+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-100 SCHE. 1 and 2	0120210	8432710202108	1-AC-100+N	1
GL-100 SCHE. 7 and 8	0120215	8432710202153	3-AC-100+N	1
GL-100 SCHE. 9	0120220	8432710202207	3-AC-100+N	1
GL-100 SCHE. 1 and 2 2BB 50 mm	0120250	8432710202504	1-AC-100+N	1
GL-100 SCHE. 1 and 2 4BB 50 mm	0120255	8432710202559	1-AC-100+N	1
GL-100 SCHE. 7 and 8 4BB 50 mm	0120260	8432710202603	3-AC-100+N	1
GL-100 SCHE. 7 and 8 8BB 50 mm	0120265	8432710202658	3-AC-100+N	1
GL-100 SCHE. 9 8BB 50 mm	0120270	8432710202702	3-AC-100+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-160 SCHE. 7	0120312	8432710203129	3-AC-160+N	1
GL-160 SCHE. 8	0120317	8432710203174	3-AC-160+N	1
GL-160 SCHE. 9	0120322	8432710203228	3-AC-160+N	1
GL-160 SCHE. 10	0120327	8432710203273	3-AC-160+N	1
GL-160 SCHE. 7 4BB	0120352	8432710203525	3-AC-160+N	1
GL-160 SCHE. 8 4BB	0120362	8432710203624	3-AC-160+N	1
GL-160 SCHE. 9 4BB	0120366	8432710203662	3-AC-160+N	1
GL-160 ESQ.10 4BB	0120368	8432710203686	3-AC-160+N	1
GL-160 SCHE. 7 8BB	0120372	8432710203723	3-AC-160+N	1
GL-160 SCHE. 8 8BB	0120377	8432710203778	3-AC-160+N	1
GL-160 SCHE. 9 8BB	0120382	8432710203822	3-AC-160+N	1
GL-160 ESQ.10 8BB	0120387	8432710203877	3-AC-160+N	1
GL-160 ESQ.10 12BB	0120392	8432710203921	3-AC-160+N	1



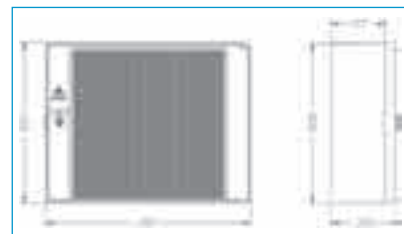
Item	Code	EAN 13	Characteristics	Pack
GL-250 SCHE. 7	0120407	8432710204072	3-AC-250+N	1
GL-250 SCHE. 8	0120412	8432710204126	3-AC-250+N	1
GL-250 SCHE. 9	0120417	8432710204171	3-AC-250+N	1
GL-250 SCHE. 10	0120422	8432710204225	3-AC-250+N	1
GL-250 SCHE. 7 4BB	0120447	8432710204478	3-AC-250+N	1
GL-250 SCHE. 8 4BB	0120452	8432710204522	3-AC-250+N	1
GL-250 SCHE. 9 4BB	0120456	8432710204560	3-AC-250+N	1
GL-250 SCHE. 10 4BB	0120458	8432710204584	3-AC-250+N	1
GL-250 SCHE. 7 8BB	0120462	8432710204621	3-AC-250+N	1
GL-250 SCHE. 8 8BB	0120467	8432710204676	3-AC-250+N	1
GL-250 SCHE. 9 8BB	0120472	8432710204720	3-AC-250+N	1
GL-250 SCHE. 10 8BB	0120477	8432710204775	3-AC-250+N	1
GL-250 SCHE. 10 12BB	0120482	8432710204829	3-AC-250+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-400 SCHE. 7	0120512	8432710205123	3-AC-400+N	1
GL-400 SCHE. 8	0120517	8432710205178	3-AC-400+N	1
GL-400 SCHE. 9	0120522	8432710205222	3-AC-400+N	1
GL-400 SCHE. 10	0120530	8432710205307	3-AC-400+N	1
GL-400 SCHE. 7 4BB	0120562	8432710205628	3-AC-400+N	1
GL-400 SCHE. 8 4BB	0120567	8432710205673	3-AC-400+N	1
GL-400 SCHE. 9 4BB	0120571	8432710205710	3-AC-400+N	1
GL-400 SCHE. 10 4BB	0120573	8432710205734	3-AC-400+N	1
GL-400 SCHE. 7 8BB	0120577	8432710205772	3-AC-400+N	1
GL-400 SCHE. 8 8BB	0120582	8432710205826	3-AC-400+N	1
GL-400 SCHE. 9 8BB	0120587	8432710205871	3-AC-400+N	1
GL-400 SCHE. 10 8BB	0120592	8432710205925	3-AC-400+N	1
GL-400 SCHE. 10 12BB	0120597	8432710205970	3-AC-400+N	1



Item	Code	EAN 13	Characteristics	Pack
GL-630 SCHE. 9	0120599	8432710205994	3-AC-630+N	1
GL-630 SCHE. 10	0120600	8432710206007	3-AC-630+N	1

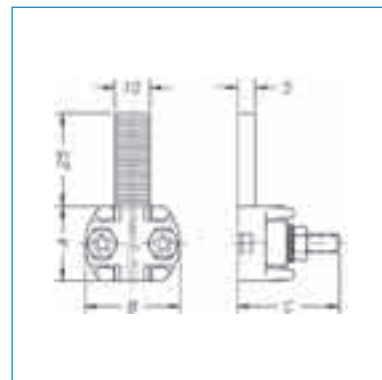


Item	Code	EAN 13	Characteristics	Pack
GL-250/250 SCHE. 11	0120490	8432710204904	6-AC-250+2N	1
GL-250/250 SCHE. 12	0120492	8432710204928	6-AC-250+2N	1
GL-250/250 SCHE. 12a	0120494	8432710204942	6-AC-250+N	1

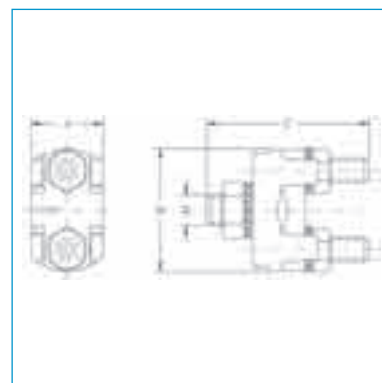
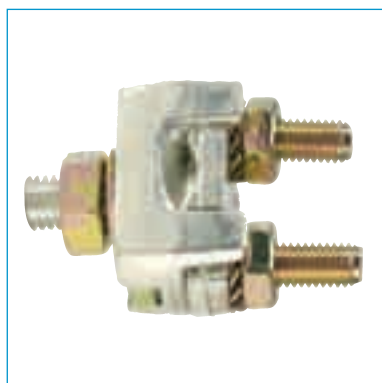


Item	Code	EAN 13	Characteristics	Pack
GL-250 SCHE. 14	0120496	8432710204966	3-AC-250+N	1
GL-400 SCHE. 14	0120498	8432710204980	3-AC-400+N	1

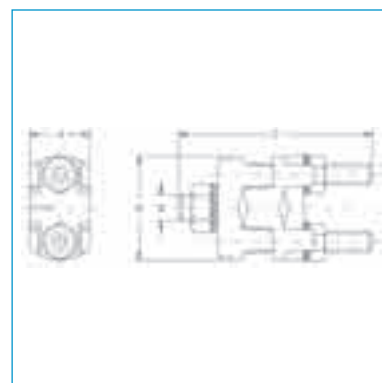
Acessories: Metallic terminals.



Item	Code	EAN 13	Characteristics	Dimensions			Number of Wires	Pack
				A	B	C		
Spade Terminals G-50 C/PALA	0127003	8432710270039	Cable up 50 mm ²	20	27	29	1	50
Spade Terminals G-50 D C/PALA	0127018	8432710270183	Cable up 50 mm ²	20	27	54	2	25



Item	Code	EAN 13	Characteristics	Dimensions				Number of Wires	Pack
				A	B	C	M		
Terminals G-50	0127002	8432710270022	up 50 mm ² cable	20	27	29	M-6	1	50
Terminals G-95	0127005	8432710270053	up 10-95 mm ² cable	24	33	50	M-8	1	50
Terminals G-150	0127010	8432710270107	up 16-150 mm ² cable	25	40	58	M-10	1	50



Item	Code	EAN 13	Characteristics	Dimensions				Number of Wires	Pack
				A	B	C	M		
Terminals G-50 D	0127017	8432710270176	up 50 mm ² cable	20	27	60	M-6	1	25
Terminals G-95 D	0127020	8432710270206	10-95 mm ² cable	24	33	78	M-8	1	30
Terminals G-150 D	0127025	8432710270251	16-150 mm ² cable	25	40	82	M-10	1	20

Applications:

We recommend that when the connection is underground, the General Protection Boxes and the Protection and Meter Boxes should go in an alcove in the wall, which should be closed with an IK 10 protection level door.

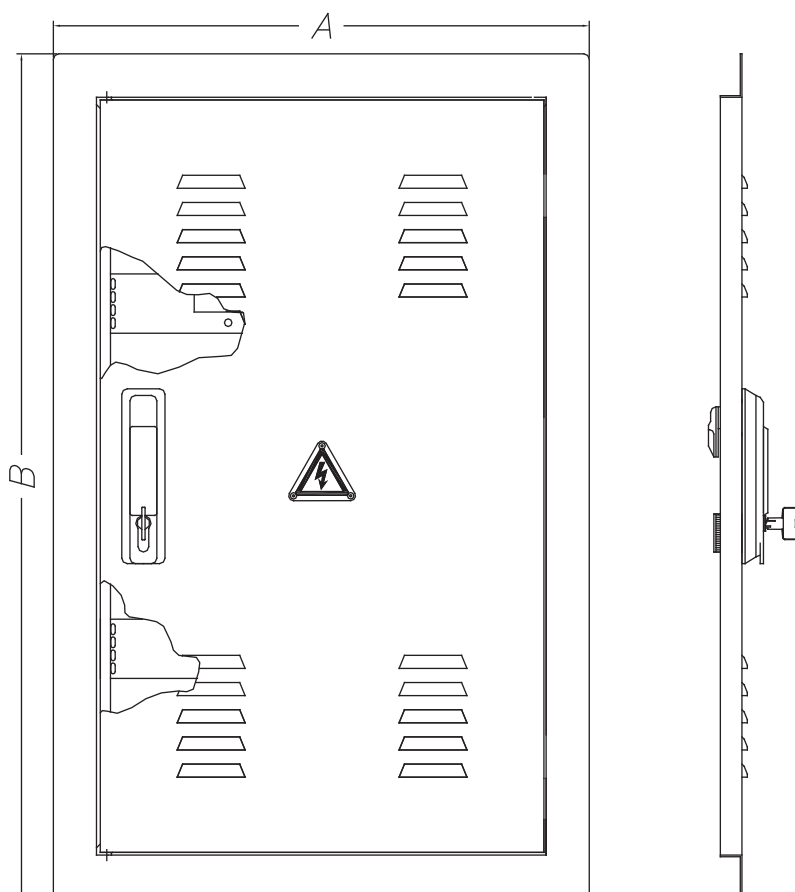
For this purpose, Crady has developed a series of Metal doors for said alcoves, with the following characteristics:

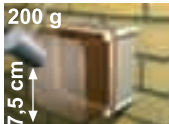
General characteristics:

- Company-specific lock.
- IK-10 impact protection level.
- Made of 2 mm thick metal, painted in RAL 7032 white colour.
- Aluminium electric shock risk sign riveted on door.
- Inside anchoring for fixing in the alcove.
- Ventilation devices.

Doors for alcoves, CGP and CPM

Item	Code	Dimensions en mm (A x B)	Application
Metal door for CGP 300X450 HC	0110906	300 x 450	GL-63 GL-100
Metal door for CGP 420X700 HC	0110907	420 x 700	GL-160 GL-250 GL-400
Metal door for CGP 540X400 HC	0110908	540 x 400	GLM-1
Metal door for CGP 600X600 HC	0110909	600 x 600	GLM-2
Metal door for CGP 780X650 HC	0110910	780 x 650	GLM-3
Metal door for CGP 500X900 HC	0110911	500 x 900	GL-250/400 BUCPor



1st Figure Protection against solid bodies EN-60529		2ª Figure Protection against liquid bodies EN-60529		IK Mechanical protection EN-50102	
	IP 0X Without protection		IP X0 Without protection		IK 0 Without protection
	IP 1X Protected against solid bodies of more than 50 mm		IP X1 Protected against vertical fall of water droplets		IK 1 Collision energy 0.150 J
	IP 2X Protected against solid bodies of more than 12 mm		IP X2 Protected against fall of water droplets up to 15° of the vertical		IK 2 Collision energy 0.200 J
	IP 3X Protected against solid bodies of more than 2,5 mm		IP X3 Protected against fall of water droplets up to 60° of the vertical		IK 3 Collision energy 0.350 J
	IP 4X Protected against solid bodies of more than 1 mm		IP X4 Protected against water projection in all directions		IK 4 Collision energy 0.500 J
	IP 5X Protegido contra el polvo (without prejudicial sediments)		IP X5 Protected against water projection in all directions		IK 5 Collision energy 0.700 J
	IP 6X Fully protected against dust		IP X6 Protected against water projection similar to large waves		IK 6 Collision energy 1.00 J
			IP X7 Protected against immersion		IK 7 Collision energy 2.00 J
			IP X8 Protected against prolonged immersion under pressure		IK 8 Collision energy 5.00 J
					IK 9 Collision energy 10.00 J
					IK 10 Collision energy 20.00 J



KOBAN ICT



KOBAN 

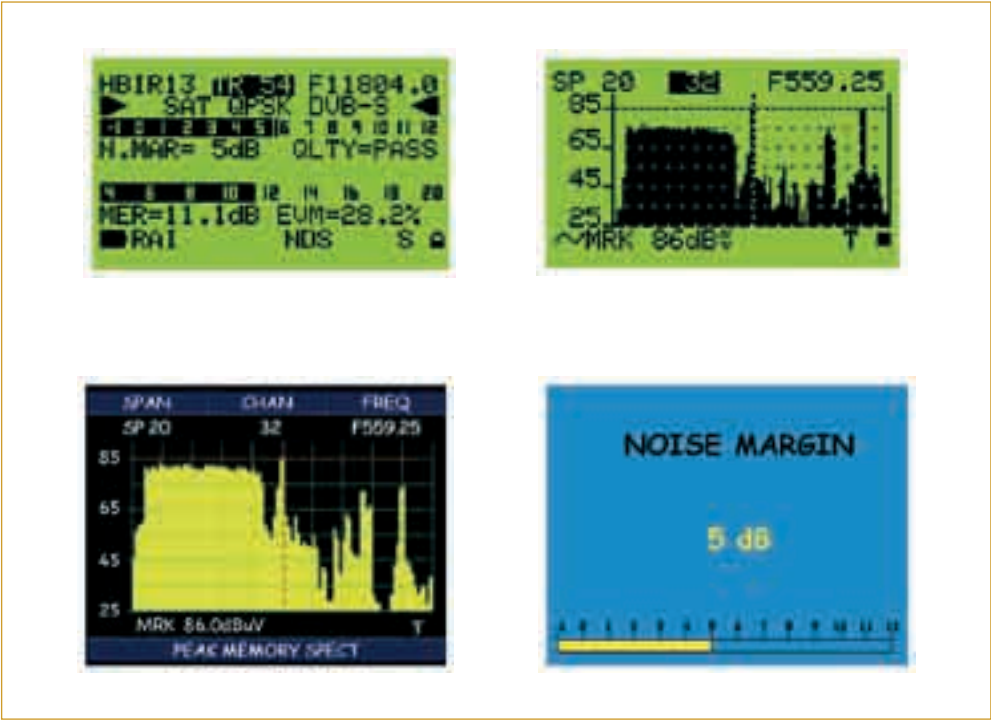


IC Test-Compact. Field-strength meter.

- Very high technological level analogical and digital meter, for terrestrial TV, cable and satellite.
- **QPSK and COFDM** cards for measuring B.E.R.
- **MPEG decoding card** for visualisation of image.
- Up to 99 memory plans.
- Digital power efficiently averaged from 5-30 to 126 dBμV.
- Measurements: aBER, bBER, MER, SNR, noise margin, medium power.
- SAT FINDER function for automatic identification of the satellite.
- Memorisation of the spectrum to adjust the aerial.
- Modulation, Plan, Programme, Channel, Frequency, selectable directly by means of the PC.
- Network identification: Name of operator, orbital position, bouquet, encrypting system and date.
- Automatic analysis: PASS, NO PASS.
- **Colour TFT 4" screen and 64 X 128 mm. high resolution display for measurements and spectrum.**
- **Weight only 1.3 Kg.**
- Long-life batteries.
- Menus in Spanish.
- Includes transport bag with accessories pocket.
- Software for data dumping and report generation.
- Updatable by software.
- **Measurements: 115 x 225 x 215 mm.**

Item	Code	EAN 13	Description
ICTEST-Compact	0791210	8426487912100	Field-strength meter with QPSK, COFDM and MPEG series cards, transport case, set of connectors and manual in Spanish.

KOBAN ICT



2 YEAR
GUARANTEE

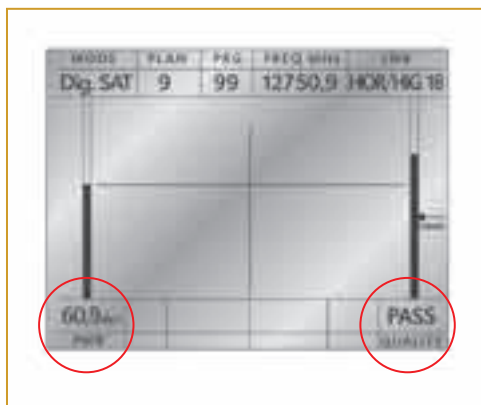


ict

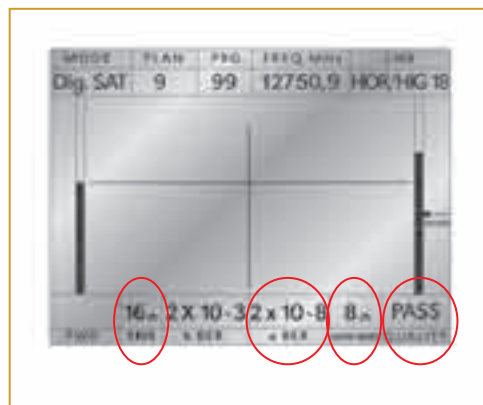
ICTEST-BASIC. Field strength meters.

- Analogical and digital meter for terrestrial, satellite and cable TV.
- Standard versions include QPSK and COFDM cards to display B.E.R. measurements.
- NETID card included in standard version.
- Optional QAM card.
- All necessary measurements are automatically obtained and simultaneously displayed.
- 4 measurement modes with just one key:
 - Basic: for quick checks, level measurements only.
 - Simple: Level, SNR, BER and signal quality check.
 - Complete: all network operator measurements and parameters.
- Sync pulse and spectrum display with peak memorisation.
- 4.5" black and white screen with graphic display.
- Long life battery included.
- Direct connection to PC with powerful software for the control and transfer of measurements and spectrums.
- Evolutionary model: software updates and upgrades available.

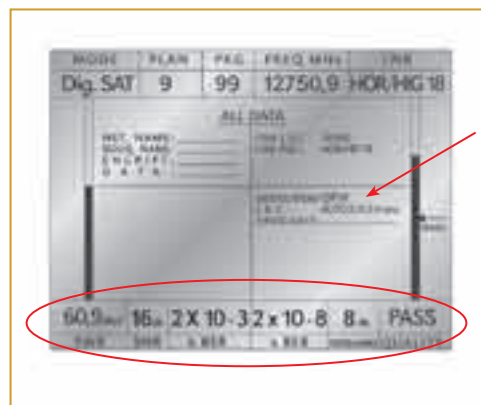
4 ways to obtain data



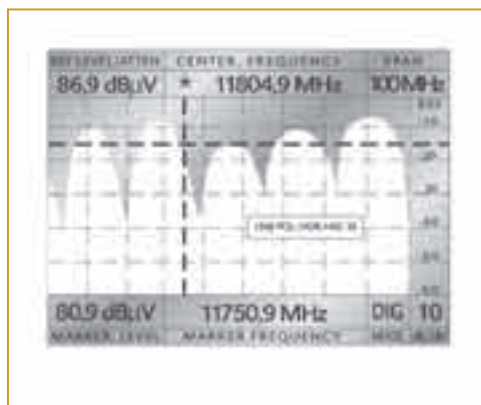
1. Basic



2. Simple



3. Complete



4. Spectrum

Item	Code	EAN 13	Description
ICTEST-BASIC	0791219	8426487912193	Field meter with standard QPSK and COFDM cards, carry bag, set of connectors and instruction manual.
ICTEST-QAMB	0791216	8426487003426	QAM demodulation card with pre and post-viterbi BER measurements.
ICTEST-MPEGB	0774895	8426487423972	MPEG card for visualisation of free-to-air digital signal images. Includes adaptation of the ICTEST-BASIC, revision and gauging with certificate.

ICT-Simulator. TV and IF signal simulator.



- Generator of signals with frequency between 0 y 2.150 MHz.
- Output level of 70 dB for satellite and 80 dB for terrestrial signals.
- Uses:
 - IF simulator, generating any signal in the IF range.
 - Measures gains (and losses) that any component introduces to the signal.
 - Measure the distance to a short-circuit or interruption in coaxial cables. Combined with ICTest-Basic we can obtain this distance in metres.

Item	Code	EAN 13	Description
ICT-SIMULATOR	0791218	8426487912186	TV and IF simulator Includes: Set of connectors and adaptors, 220V input, 12 VDC output power adaptor, instruction manual

Mastercom. Global measuring system.



- KOBAN Mastercom allows carrying out ALL the measurements and signal identification in an easy and automatic way, carrying out the complete testing of any telecommunication service.
- Identifies, analyses and manages any type of radio electric emissions:
 - Sound radio diffusion, AM/FM.
 - Digital sound radio diffusion, DAB.
 - Analogical and digital television radio diffusion.
 - Mobile communications service, SM.
 - Mobile telephone service: GSM, DCS, UMTS.
 - Electro-magnetic emissions levels.
 - Characterisation of aerial, cable and connectors parameters.
- Additionally:
 - Possibility to use the device in remote mode.
 - Support for more than 5 simultaneous external devices.
 - Automatic launching of measurements adjusted to the detected incidents.
 - Report creation modules.
 - Big capacity to store measurements, (more than one year of measurements without having to download them).
 - Modular architecture.

KOBAN ICT



1. Singular digital TV screen.



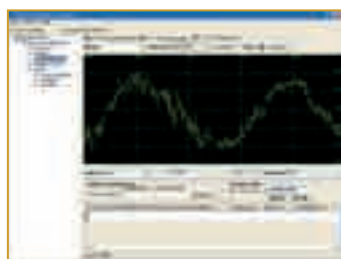
2. Interference TV screen



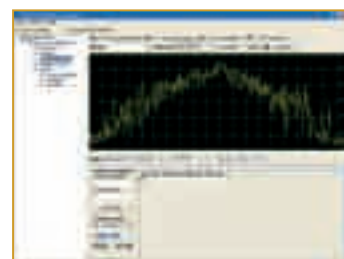
1. Basic



1. Basic



1. Basic



1. Basic

Item	Code
MASTERCOM	Please check

Basic telephony accessories

ICTERMINAL. Clamp module.



- Telephone pair connection terminals.
- 10-pair terminals are mounted on the main block.
- 5-pair terminals are mounted on the secondary blocks.
- Disconnectable bases: each pair can be switched on and off individually by means of separator pins (Ref. ICTSEP).
- They support gas discharge protection cartridges.

Item	Code	EAN 13	Description	Package
ICTERMINAL 10P	0792110	8426487921102	Regleta seccionable de 10 polos	10/200
ICTERMINAL 5P	0792111	8426487921119	Regleta seccionable de 5 polos	10/200

Surge arrester supports.



- Used to insert gas discharge surge protectors in terminals.
- 10-pair cartridges to protect connections on the main block.
- Arresters not included.

Item	Code	EAN 13	Description	Package
ICTERMINAL 10P/D	0792112	8426487921126	surge arrester cartridge, 10 pairs	5/200

Triple-pole arresters.



- Protection from possible electrical discharge due to power surges on telephone lines.
- Fitted directly to the protection support (one per pair).
- Working voltage: 230 V.

Item	Code	EAN 13	Description	Package
ICTERMINAL D3P	0792113	8426487921133	Triple -pole arrester	25/200

ICTRAIL. Backmount frames



- Metal elements for fastening the ICTERMINAL bases.
- The bases are easily inserted and can be removed later.

Item	Code	EAN 13	Description	Package
ICTRAIL 1X10	0792115	8426487921157	Frame for 1 10-pair base	16
ICTRAIL 10X10	0792117	8426487921171	Frame for 10 10-pair base	16
ICTRAIL 1X5	0792116	8426487921164	Frame for 1 5-pair base	16
ICTRAIL 5X5	0792118	8426487921188	Frame for 5 5-pair base	16
ICTRAIL 3X10	0792565		Frame for 3 10-pair base	16

ICTBOX. Distribution boxes



- Distribution boxes with mounted frame. Made of ABS. Side inserts with disconnectable cones.

Item	Code	EAN 13	Description	Package
ICTBOX-S 3X 5	0792126	8426487921263	190x105x203 mm box with 5x10 frame without bases	1/16
ICTBOX 3X5	0792124	8426487921249	190x105x203 mm box with 5x10 frame and three 10-pair bases	1/16
ICTBOX-S 10X10	0792127	8426487921270	380x105x203 mm box with 10x10 frame without bases	1/16
ICTBOX 10X10	0792123	8426487921232	380x105x203 mm box with 10x10 frame and ten 10-pair bases	1/16

ICTOOL. Insertion and cutting tool.



- Tool for ICTERMINAL cabling:
- Professional insertion and cutting tool for simultaneous cutting and insertion operations. Includes two fold-away elements:
 - Wire extraction hook
 - Element for uninterlocking bases.

Item	Code	EAN 13	Description	Package
ICTOOL PRO	0792119	8426487921195	Professional insertion and cutting tool	1/100

**Label holder.**

- Practical system for labelling the various groups of 10-pair bases.

Item	Code	EAN 13	Description	Package
ICTERMINAL CID/10	0792114	8426487921140	Frame for identification label for ICTERMINAL 10P	10/1.000
ICTERMINAL CID/5	0792109	8426487921096	Frame for identification label for ICTERMINAL 5P	10/1.000
ICTERMINAL CS/10	0792125	8426487921256	Fold_away frame for covering the gap of a base	10/1.000

**Test and cut-off plugo**

- The test pins are made up of the pin itself and a cord with an RJ 11 termination for checking base contact poles.
- The cut-off pins are for identifying lines by cutting off transmission.

Item	Code	EAN 13	Description	Package
ICTPLUG 2P	0792120	8426487921201	2-pole test pin	5/200
ICTPLUG 4P	0792121	8426487921218	4-pole test pin	5/200
ICTSEP	0792122	8426487921225	Red cut-off pin	10/5.000

**Telephone UAP.**

- User access point for TB + ISDN service
- Option for manual switching of the supply to the user's internal network to enable maintenance work and breakdown detection.
- Available for 1 and 2 lines.

Item	Code	EAN 13	Description	Package
ICT-PAU1	0792128	8426487921287	1-line telephone UAP	1/100
ICT-PAU2	0792129	8426487921294	2-line telephone UAP	1/100

ICT-T



ICT-T 4C3



ICT H-H 4C



ICT-T 4C2



“T” adaptor and RJ11 and RJ12 couplers.

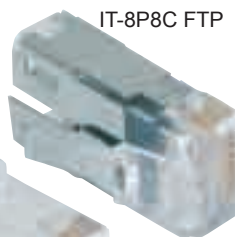
- “T” adaptors for telephone lines.
- For 1 or 2 telephone lines.
- Busy line notification option.
- Triple adaptor, 3 outputs for a same line.
- Female-female couplers for RJ11 and RJ12.

Item	Code	EAN 13	Description	Package
ICT-T	0792141	8426487022427	T adaptor, 2RJ11	1
ICT-T 4C/2	0792396	8426487023769	T adaptor, RJ11 2 lines	1
ICT-T 4C/2AV1	0792397	8426487023776	T adaptor, RJ11 2 line with notifier	1
ICT-T 4C/3	0792398	8426487023783	Triple adaptor RJ11	1
ICT H-H 4C	0792399	8426487023790	Coupler 180° Female-female RJ11	1
ICT H-H 6C	0792600	8426487023806	Coupler 180° Female-female RJ12	1
ICT H-H 4C/2	0792601	8426487023820	Coupler 180° 2 a 1 Female-female RJ11	1
ICT H-H 6C/2	0792602	8426487023837	Coupler 180° 2 a 1 Female-female RJ12	1

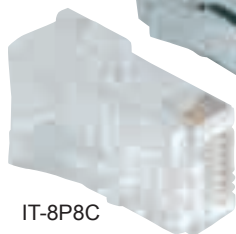
Male RJ connectors: telephone and data.

- Male connectors, RJ11, RJ12 and RJ45
- Telephone: 4 ways (6P4C) and 6 ways (6P6C) equivalent to RJ11 and RJ12 respectively.
- Data: 8 ways (8P8C) equivalent to RJ45 in all its possibilities.

IT-8P8C FTP



IT-8P8C



Item	Code	EAN 13	Description	Package
IT-6P4C	0792134	8426487022304	Connector RJ11 male, 4 ways	10
IT-6P6C	0792135	8426487022311	Connector RJ12 male, 6 via	10
IT-8P8C	0792136	8426487022328	Connector RJ45 male, 8 unscreened ways, UTP Cat. 5e	10
IT-8P8C Cat. 6	0792662	8426487023196	Connector RJ45 male, 8 unscreened ways, UTP Cat. 6	10
IT-8P8C FTP	0792563	8426487023202	Connector RJ45 male, 8 screened ways, FTP Cat. 5c	10
IT-8P8C FTP Cat. 6	0742564	8426487023219	Connector RJ45 male, 8 screened ways, FP Cat. 6	10

ICT-ROS6-S



ICT-ROS4-S MINI



ICT-ROS4-S MINI-2



ICT-ROS4-S/F



Telephone surface jacks.

- 4 way (RJ11) and 6 way (RJ12) rosettes
- Surface-assembled.
- Side input connector.
- Compact option: mini rosette.

Item	Code	EAN 13	Description	Package
ICT-ROS4-S	0792603	8426487023844	4 ways surface, RJ11 jack	1
ICT-ROS6-S	0792604	8426487023851	Ways surface, RJ12 jack	1
ICT-ROS4-S MINI	0792605	8426487023868	Mini 4 ways surface, RJ11 jack	1
ICT-ROS4-S MINI-2	0792606	8426487023875	Mini doble 4 ways surface, RJ11 jack	1
ICT-ROS6-S MINI-2	0792607	8426487023882	Mini doble 6 ways surface, RJ12 jack	1
ICT-ROS4-S/F	0792608	8426487023899	4 was surface front connector, RJ11 jack	1
ICT-ROS6-S/F	0792609	8426487023905	6 ways surface front connector, RJ12 jack	1

Telephone cable.

- Telephone cable flat and curled cables.



Item	Code	EAN 13	Description	Package
ICT-TFA M-M	0792610	8426487023912	Straight cable 2xRJ11, 2m. white	1
ICT-TFB M-M	0792611	8426487023929	Curled cable 2xRJ11, 5m. white	1
ICT-TFA M-H	0792612	8426487023936	Straight cable RJ11 male-female, 2m. white	1
ICT-TFB M-H	0792613	8426487023943	Curled cable RJ11 male-female, 5m. white	1



Low-noise mast amplifier

- Fully shielded
- With "F" connectors
- Transparent to TC Digital and Analogical signals
- Very low noise and High Gain. Minimum input level of 50 dB μ V in UHF.
- Amplification and regulation of gain separated from VHF and UHF.
- Gain selection with switch for improved stability in time and improved adaptation to impedances.
- Anchoring to mast with re-usable strap or to wall.

Technical characteristics

Reference	ICTA-LNA-U	ICTA-LNA-UV
Number of inputs	1	2
Bands	UHF	VHF/UHF
Gain	40 dB	-0.5 dB/ 40 dB
Power output variation	± 1 dB	± 1 dB
Reg. Gain (dB)	40-33-26	- / 40-33-26
Input decoupling	-	> 50 dB
Input rejection	-	> 40dB/ >60dB
Feedback losses	> 10 dB	> 10 dB
Output level	104 dB μ V	- / 104 dB μ V
Noise figure	1,3 dB	- / 1.3 dB
Consumption	50 mA	50 mA
Power supply	De 15 Vdc a 24 Vdc	De 15 Vdc a 24 Vdc
Packaging measurements	140x160x70 mm	140x160x70 mm
Weight	300	300
IP level	IP53	IP53

Item	Code	EAN 13	Description	Package
ICTA-LNU	0792326	8426487007554	Low-noise mast amplifier, 1 UHF input, 40 dB	1
ICTA-LNUV	0792327	8426487007561	Low-noise mast amplifier, 2 UHF input, 40 dB+ VHF -0.5 dB	1

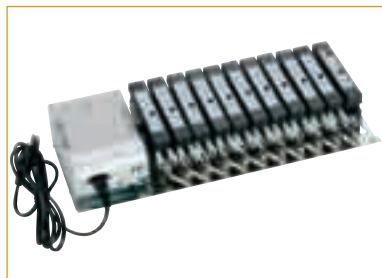


Multi-band amplifying centrals

- Up to 3 independent inputs.
- With F connectors
- Transparent to TV Digital and Analogical signals.
- Gain regulation independent for every input.
- Metal chassis and inside shielding of the RF circuit.

Technical characteristics						
Reference	ICTA-BA2		ICTA-BA4			
Number of inputs	2		4			
Bands	UHF+ VHF (FM)		UHF+BIII+BI+FM			
Gain, dB	36 dB		FM	BIII	BI	UHF
			30	30	32	40
Power output	± 1 dB		± 1 dB			
Gain regulation	-20 dB		-20 dB			
Rejection	25 dB					
Output level	116 dBμV		115 dBμV/116 dBμV			
Noise figure	5 dB		7 dB			
Feedback losses	≥ 10 dB		≥ 10 dB			
Power supply	230 Vac		230 Vac			
Measurements	220x90x55		210x170x45 mm			
Packaging measurements	225x165x70		230x230x70 mm			
Packaging weight	0.9 kg		1.7 kg			

	Code	EAN 13	Description	Package
ICTA-BA2	0792328	8426487007578	Multi-band amplifier 2 UHF 33 dB inputs + 1 VHF 36 dB input	1
ICTA-BA4	0792329	8426487007585	Multi-band amplifier 4 UHF 40 dB inputs + BIII+BI+FM 30 dB	1



Adjoining Mono channel amplifiers

- Input auto de-mix and output auto-mix ("Z System").
- High output level.
- Inter-stage attenuator, allows optimising the noise figure as it reduces Gain. Very important in DTT.
- Remote supply to previous included.
- Very low consumption.
- Transparent to Analogical and Digital TV.
- 5 cell filter (5 cavities in the UHF models).
- Extremely compact.

Technical characteristics

FM amplifier + DAB

Reference	ICTA-DAB
Bands	87.7-108/195.0-223.0
Power output variation	± 1 dB
Gain regulation	-18 dB
Feedback losses to input / output	>10 dB
Output level	114 dBμV
Noise figure	< 7 dB
Consumption	120 mA @ 12 VDC = 1,44 W 100 mA @ 15 VDC = 1,50 W 85 mA @ 18 VDC = 1,53 W 67 mA @ 24 VDC = 1,60 W
Measurements	130x70x21 mm
Packaging measurements	135x100x25 mm
Packaging weight	350 g

FM amplifier

Reference	ICTA-FM
Channel/Band	FM
Band width (MHz)	87.7-108
Power output variation	± 1 dB
Gain	40 dB
Gain regulation	-18 dB
Rejection to ± 2 channels	35 dB
Output level	125 dBμV
Noise figure	< 10 dB
Consumption	80 mA
Power supply	+ 15 Vdc
Measurements	130x70x21 mm
Packaging measurements	135x100x25 mm
Packaging weight	350 g

Adjoining UHF amplifier

Reference	ICTA-UHFx
Channel/Band	C21-C69
Band width (MHz)	8
Power output variation	± 1 dB
Gain	50 dB
Gain regulation	-18 dB
Rejection to ± 2 channels	50 dB
Output level	125 dBμV
Noise figure	< 10 dB
Consumption	90 mA
Power supply	15 Vdc
Measurements	130x70x21 mm
Packaging measurements	135x100x25 mm
Packaging weight	350 g

Three-channel DTT amplifier

Reference	ICTA-TDT
Channel/Band	C66-69
Band width (MHz)	32
Power output variation	± 2 dB
Gain	50 dB
Gain regulation	-18 dB
Rejection to ± 2 x Band width	50 dB
Feedback losses	> 6 dB
Output level	124dBμV
Noise figure	< 10 dB
Consumption	90 mA
Power supply	15 Vdc
Measurements	130x70x21 mm
Packaging measurements	135x100x25 mm
Packaging weight	350 g

Adjoining mono-channel amplifiers

Item	Code	EAN 13	Description	Package
ICTA-FM	0792331	8432252076519	FM amplifier, 40 dB	1
ICTA-DAB	0792390	8426487008247	DAB amplifier+FM	1
ICTA-UHF21	0792332	8426487007066	Mono channel amplifier, channel 21 50 dB	1
ICTA-UHF22	0792333	8426487007073	Mono channel amplifier, channel 22 50 dB	1
ICTA-UHF23	0792334	8426487007080	Mono channel amplifier, channel 23 50 dB	1
ICTA-UHF24	0792335	8426487007097	Mono channel amplifier, channel 24 50 dB	1
ICTA-UHF25	0792336	8426487007103	Mono channel amplifier, channel 25 50 dB	1
ICTA-UHF26	0792337	8426487007110	Mono channel amplifier, channel 26 50 dB	1
ICTA-UHF27	0792338	8426487007127	Mono channel amplifier, channel 27 50 dB	1
ICTA-UHF28	0792339	8426487007134	Mono channel amplifier, channel 28 50 dB	1
ICTA-UHF29	0792340	8426487007141	Mono channel amplifier, channel 29 50 dB	1
ICTA-UHF30	0792341	8426487007158	Mono channel amplifier, channel 30 50 dB	1
ICTA-UHF31	0792342	8426487007165	Mono channel amplifier, channel 31 50 dB	1
ICTA-UHF32	0792343	8426487007172	Mono channel amplifier, channel 32 50 dB	1
ICTA-UHF33	0792344	8426487007189	Mono channel amplifier, channel 33 50 dB	1
ICTA-UHF34	0792345	8426487007196	Mono channel amplifier, channel 34 50 dB	1
ICTA-UHF35	0792346	8426487007202	Mono channel amplifier, channel 35 50 dB	1
ICTA-UHF36	0792347	8426487007219	Mono channel amplifier, channel 36 50 dB	1
ICTA-UHF37	0792348	8426487007226	Mono channel amplifier, channel 37 50 dB	1
ICTA-UHF38	0792349	8426487007233	Mono channel amplifier, channel 38 50 dB	1
ICTA-UHF39	0792350	8426487007240	Mono channel amplifier, channel 39 50 dB	1
ICTA-UHF40	0792351	8426487007257	Mono channel amplifier, channel 40 50 dB	1
ICTA-UHF41	0792352	8426487007264	Mono channel amplifier, channel 41 50 dB	1
ICTA-UHF42	0792353	8426487007271	Mono channel amplifier, channel 42 50 dB	1
ICTA-UHF43	0792354	8426487007288	Mono channel amplifier, channel 43 50 dB	1
ICTA-UHF44	0792355	8426487007295	Mono channel amplifier, channel 44 50 dB	1
ICTA-UHF45	0792356	8426487007301	Mono channel amplifier, channel 45 50 dB	1
ICTA-UHF46	0792357	8426487007318	Mono channel amplifier, channel 46 50 dB	1
ICTA-UHF47	0792358	8426487007325	Mono channel amplifier, channel 47 50 dB	1
ICTA-UHF48	0792359	8426487007332	Mono channel amplifier, channel 48 50 dB	1
ICTA-UHF49	0792360	8426487007349	Mono channel amplifier, channel 49 50 dB	1
ICTA-UHF50	0792361	8426487007356	Mono channel amplifier, channel 50 50 dB	1
ICTA-UHF51	0792362	8426487007363	Mono channel amplifier, channel 51 50 dB	1
ICTA-UHF52	0792363	8426487007370	Mono channel amplifier, channel 52 50 dB	1
ICTA-UHF53	0792364	8426487007387	Mono channel amplifier, channel 53 50 dB	1
ICTA-UHF54	0792365	8426487007394	Mono channel amplifier, channel 54 50 dB	1
ICTA-UHF55	0792366	8426487007400	Mono channel amplifier, channel 55 50 dB	1
ICTA-UHF56	0792367	8426487007417	Mono channel amplifier, channel 56 50 dB	1
ICTA-UHF57	0792368	8426487007424	Mono channel amplifier, channel 57 50 dB	1
ICTA-UHF58	0792369	8426487007431	Mono channel amplifier, channel 58 50 dB	1
ICTA-UHF59	0792370	8426487007448	Mono channel amplifier, channel 59 50 dB	1
ICTA-UHF60	0792371	8426487427529	Mono channel amplifier, channel 60 50 dB	1
ICTA-UHF61	0792372	8426487007462	Mono channel amplifier, channel 61 50 dB	1
ICTA-UHF62	0792373	8426487007479	Mono channel amplifier, channel 62 50 dB	1
ICTA-UHF63	0792374	8426487007486	Mono channel amplifier, channel 63 50 dB	1
ICTA-UHF64	0792375	8426487007493	Mono channel amplifier, channel 64 50 dB	1
ICTA-UHF65	0792376	8426487007509	Mono channel amplifier, channel 65 50 dB	1
ICTA-UHF66	0792377	8426487007516	Mono channel amplifier, channel 66 50 dB	1
ICTA-UHF67	0792378	8426487007523	Mono channel amplifier, channel 67 50 dB	1
ICTA-UHF68	0792379	8426487007530	Mono channel amplifier, channel 68 50 dB	1
ICTA-UHF69	0792380	8426487007547	Mono channel amplifier, channel 69 50 dB	1
ICTA-TDT	0792381	8432252076533	Tetra channel amplifier, 66-69 50 dB	1



FI amplifier and terrestrial TV mix

- Satellite FI amplifier and terrestrial TV mix. Allows combining satellite FI and terrestrial TV signals in one cable.
- High Gain in satellite FI.
- Slope adjustment in satellite FI.
- The satellite FI output stage in gallium arsenide, allows obtaining a very high output level.
- Voltage injector included for supply to LNB.
- Female "F" connectors in the satellite FI input and in output.
- Low insertion losses for terrestrial TV band.
- Female IEC connector in the terrestrial TV input.
- Power supply between +12 VDC and +15 VDC.

Technical characteristics		
Reference	ICTA-FI	
Bands	FI	Terrestrial TV
Frequencies	950-2150 MHz	5-860 MHz
Gain (minimum slope)	35 dB@950 MHz	<-3 dB @862 MHz
	40 dB@2150 MHz	< 1.5 dB@ 830 MHz
Gain (maximum slope)	33 dB@950 MHz	<-3 dB @862 MHz
	44 dB@2150 MHz	< 1.5 dB@ 830 MHz
Gain regulation	-14 dB	-
Supply to LNB	Si	
Maximum power to LNB	300 mA	
Noise figure	6 dB	-
Output level	123 dBμV @950 MHz	-
	126 dBμV @950 MHz	-
Input connector	"F" female	IEC female; 9.5 mm Ø
Output connector	"F" female	
Rejection outside band	40 dB @860 MHz	25 dB@950 MHz
		>35 dB@1000 MHz
Power supply	Between 12 VDC and 15 VDC	
Consumption	190 mA	
Supply connectors	Faston 6.3 mm male double	
Measurements	130x70x21 mm	
Packaging measurements	135x100x25 mm	
Packaging weight	350g.	
Operation conditions	-10 to + 55°C, up to 90% humidity	
Protection level	IP 30	
Included in the Package	1 power supply	



Terrestrial TV and satellite FI header amplifier

- Gain regulation independent for terrestrial TV and satellite FI bands.
- Slope regulation for terrestrial TV and satellite FI bands.
- Separated amplification for each band.
- Supply to LNB.

Technical characteristics		
Reference	ICTA-FI-TV	
Number of inputs	2	
Output stage	Silica	
Bands	FI	TV
Frequencies (MHz)	950-2150	47-860
Gain	34@950	>-1 tip
	40@2150	>-2@860
Slope regulation	-8 dB@950 MHz	-
Power output variation	± 1.5 dB	
Gain regulation	-14	-
Rejection to top band	-	30dB@950MHz
Rejection to lower band	24dB@830MHz	-
Return losses (dB)	>10	>12
Output level	118 dBμV	-
Noise figure (dB)	<8	-
Power supply	Lineal	
Consumption	15.5 VA	
Supply to LNB	13 VDC	
Power supply	230 VAC ± 10%	
Measurements	121x140x89 mm	
Packaging measurements	135x140x94 mm	
Packaging weight	1.2 Kg.	
Operation conditions	-10 to + 55°C, up to 90° humidity	
Protection level	IP30	

Item	Code	EAN 13	Description	Package
ICTA-FI	0792389	8426487007721	FI + TV Mix amplifier	1
ICTA-TV-1FI	0792330	8426487007592	FI+ Mix TV self-fed amplifier	1
ICTA-TV-2FI	0792391	8426487008254	Self-fed amplifier 2 inputs FI+ Mix TV	1



Power supplies

- Highly efficient switched power supply, for mono-channel heads.
- + 15 Vdc, 1.5 A
- Allows supplying up to 16 UHF 50 dB mono-channel amplifying modules, or up to 22 UHF 40 dB mono-channel amplifying modules.

Technical characteristics	
Reference	ICTA-FTE
Input voltage	230 Vac $\pm$ 10%
Output voltage	+15 Vdc
Maximum power	1.5 A
Power consumption	26VA
Efficiency	87%
Connectors	2 faston macho 6.3 mm
Dimensions	85x57x128 mm
Package dimensions	103x158x64 mm
Package weight	490 g.
Operation conditions	-10 a + 55°C, hasta 90% ambient humidity
Degree of protection	IP 30
Included in Package	Package 2 DC power supplies, 1 network supply cable, 1 instructions manual

- In heads with need to add channels and the existing power supply does not allow supply to the new modules, an alternative and simple solution is the ICTA-AL15.
- Ensures that the new channel does not affect the operation of the previous installation.
- Packaging dimensions: 115x 83 x 56 mm
- Packaging weight. 320 g.

Item	Code	EAN 13	Description	Emb.
ICTA-FTE	0792382	8426487007639	Switched power supply +15 VDC 1500 mA 230VAC	1
ICTA-AL15	0792387	8426487007684	Supplier +15 VDC 200 mA	1

**Accessories for Mono channel headers****Load 75 ohms IEC isolated DC**

- Load of 75 ohms isolated in D.C. for termination of unused inputs and outputs.
- Connector IEC male, 9.5 mm Ø

Rigid coaxial jumper

- Rigid coaxial jumper for interconnection for mix input/output and de-mix in Mono channel headers.
- D=29 mm
- Connectors IEC male, 9.5 mm Ø

Metal supports

- Metal supports for 6 or 12 Mono channel modules and power supply.

Item	Code	EAN 13	Description	Emb.
ICTA-C75	0792385	8426487007660	Insulated load 75 ohms	10
ICTA-PTE	0792386	8426487007677	Rigid coaxial jumper, D= 29 mm	10
ICTA-SOP12	0792383	8426487007646	Support for assembly of source ICTA-FTE and 12 Mono channel modules	1
ICTA-SOP6	0792384	8426487007653	Support for assembly of source ICTA-FTE and 6 Mono channel modules	1



Selective programmable Mono channel header

- Programmable header transparent to analogical (PAL/B/G/I, SECAM L, etc) and digital (COFDM y QAM) channels.
- Allows amplification of up to 14 UHF channels.
- 8 channel base unit for UHF, FM and BIII+DAB, power supply and programmer.
- The base unit allows housing two applications of 3 UHF channels each.
- Super-selective UHF modules. 45 dB to video carrier from top channel and audio carrier from lower channel.
- 55 dB maximum gain in UHF.
- -30 dB gain regulation (1 db jumps) adjustable with programmer.
- Separated amplification of VHF and UHF. BIII-DAB input.
- Supply to previous programmable at +5 VDC, +12 VDC, ++15VDC, +24VDC or OFF and with digital over-consumption detection.
- Possibility of remote programming by means of series port RS 232
- Cloning of programming parameters in extractable memory.
- Very high rejection of adjoining channels.
- Equalises adjoining channels with level differences of 30 dB.

Technical characteristics

Bands	FM	BIII-DAB	UHF 1	UHF2	UHF3	UHF4	UHF 5
Frequencies, MHz	87.7-108	174-230	470-862	470-862	470-862	470-862	470-862
Gain	40dB	40dB	55dB				
Gain regulation	-18 dB	-18dB	30dB				
Analogical TV optimum signal input level	-	60 dBμV a 93 dBμV	60 dBμV a 85 dBμV				
Digital TV optimum signal input level	-	-	45 dBμV a 80 dBμV				
Maximum input level		93 dBμV	93 dBμV				
Maximum output level	-	-	115 dBμV				
"shoulders"@-30 dB digital TV maximum output level	-	-	127 dBμV				
Noise figure	6 dB	6 dB	8 dB				
Feedback losses	≥12 dB	≥15 dB	≥12 dB				
Reject	40 dB @ BIII 40 dB@BI	40 dB @ UHF 40 dB@FM	45 dB a +1.25 MHz, 45 dB a -2 MHz				
Channel power output variation	-	-	±0.7 dB in 6 MHz – analogical channels				
Channel output variation	-	-	±1.5 dB in 8 MHz – digital channels				
Band output variation			±3 dB				
Input Z response	-	-	0 dB ±1.5 dB				
Supply to previous	-	-	Programable 0/5/12/15/24 Vdc	-	-	-	-
Maximum power to previous	-	-	70 mA	-	-	-	-
Surge protection	-	-	Si- digital	-	-	-	-
Power supply	230 Vac ± 10%						
Consumption	8 modules: 25 VA; 11 modules: 32 VA; 14 modules: 40 VA						
Measurements	445x280x83 mm						
Packaging measurements	545x350x85 mm						
Weight	5 Kg						
IP level	IP 30						
Includes	1 supply cable to network, 1 instructions manual, 2 "F" to "F" cables, 2 loads 75 ohms "F"						

Item	Code	EAN 13	Description	Emb.
ICTA-MATV	0792388	8426487007691	Programmable header 8 adjoining channels	1



Taps.

- Directional tap with 2, 4 and 6 outputs.
- Frequency band: 5-2300 MHz, for VHF, UHF and satellite.
- Passage DC, only in prolongation.
- Connectors type F, 75 Ω.

Item	Code	EAN 13	Description	Package
ICT-Tap2DA	0792304	8426487923045	2 output shunt Top floors	1/10
ICT-Tap2DM	0792305	8426487923052	2 output shunt Intermediate floors	1/10
ICT-Tap2DB	0792306	8426487923069	2 output shunt Lower floors	1/10
ICT-Tap4DA	0792307	8426487923076	4 output shunt Top floors	1/10
ICT-Tap4DM	0792308	8426487923083	4 output shunt Intermediate floors	1/10
ICT-Tap4DB	0792309	8426487923090	4 output shunt Lower floors	1/10
ICT-Tap6DA	0792310	8426487923106	6 output shunt Top floors	1/10
ICT-Tap6DM	0792311	8426487923113	6 output shunt Intermediate floors	1/10
ICT-Tap6DB	0792312	8426487923120	6 output shunt Lower floors	1/10

Technical characteristics

Item	Losses losses	Derivation insertion	Insulation deriv. VU/FI	Insulation sal.-deriv. VU/FI	Floor
ICT-Tap2DA	30±2 dB	2±0,5 dB	48/34 dB	> 33 dB	6 to 10
ICT-Tap2DM	20±1 dB	3±0,5 dB	47/34 dB	24/27 dB	3 to 6
ICT-Tap2DB	10±1 dB	4±0,5 dB	> 32 dB	24/22 dB	1 to 3
ICT-Tap4DA	25±1 dB	2±0,5 dB	> 22 dB	33/28 dB	6 to 10
ICT-Tap4DM	15±1,5 dB	3,5±0,5 dB	> 22 dB	30/26 dB	3 to 6
ICT-Tap4DB	10±1 dB	5±0,5 dB	> 22 dB	30/25 dB	1 to 3
ICT-Tap6DA	25±1,5 dB	3±0,5 dB	23/20 dB	32/30 dB	6 to 10
ICT-Tap6DM	20±1,5 dB	4±0,5 dB	23/20 dB	28/26 dB	3 to 6
ICT-Tap6DB	16±1,5 dB	5±0,5 dB	22/20 dB	23/22 dB	1 to 3

Satellite terrestrial mixer.



- Mixer/separator of terrestrial (VHF/UHF) and satellite (FI) signals.
- Passage DC in FI input and also in terrestrial input (to supply a pre-amplifier).
- Zinc nickel-plated chassis. Fully shielded.

Item	Code	EAN 13	Description	Package
ICT-Mix	0792313	8426487923137	TV/FI Mixer Insertion losses < 3 dB TV-FI insulation > 25 dB	1/10

Distributors.



- Distributor with 2, 4, 6 and 8 outputs.
- Frequency band: 5-2300 MHz. for VHF, UHF and satellite.
- Passage DC in all outputs.
- Connectors type F, 75 Ω.
- Zinc nickel-plated chassis. Fully shielded.

Item	Code	EAN 13	Description	Package
ICT-Split2D	0792300	8426487923007	Repartidor de 2 salidas	1/10
ICT-Split3D	0792323	8426487923236	Repartidor de 3 salidas	1/10
ICT-Split4D	0792301	8426487923014	Repartidor de 4 salidas	1/10
ICT-Split6D	0792302	8426487923021	Repartidor de 6 salidas	1/10

Technical characteristics

Item	Losses Insertion	Insulation between outputs	Return losses IN/OUT
ICT-Split2D	VHF/UHF= 5 dB FI = 6,5 dB	> 18 dB	12/10 dB
ICT-Split3D	VHF/UHF= 7,2 dB FI = 10,5 dB	> 20 dB	15/10 dB
ICT-Split4D	VHF/UHF= 9 dB FI = 11 dB	> 20 dB	12/14 dB
ICT-Split6D	VHF/UHF= 12 dB FI = 15,5 dB	> 20 dB	12/10 dB

Attenuator.



- Frequency band: 0-2300 MHz.
- Attenuation of signal from 0 to 18 dB, adjustable.
- Shielded metal chassis with plastic cover.

Item	Code	EAN 13	Description	Package
ICT-Aten	0792314	8426487923144	Adjustable attenuator TV insertion losses: 1.5 dB FI insertion losses: 5 dB	1/10

TV/SAT sockets.



- Fully shielded Zinc chassis.
- F Connector for SAT, IEC male connector for TV and IEC female connector for radio in ICT-Socket-F.
- IEC male connector for R/TV and IEC female connector for SAT in ICT-Socket-F2.
- Availability of embellisher accessories.

Item	Code	EAN 13	Description	Package
ICT-Socket-F2	0792315	8426487923151	Final socket low losses	1/10
ICT-Socket-F	0792316	8426487923168	Final socket low losses	1/10
ICT-Emb	0792317	8426487923175	Socket embellisher	1/10

Technical specifications

Item	Losses insertion	Losses derivation
ICT-Socket-F2	—	2±0,3 dB
ICT-Socket-F	2	3±0,3 dB

Ludoor amplifiers.



Amplifier for home interior.

- Amplifier for terrestrial signal and CATV.
- Two outputs allow re-amplifying the digital and analogical signal, FM and DAB inside a home to supply multiple sockets.
- Gain regulation.

Frequency range	47-862 MHz.
Gain (dB)	20
Noise figure (dB)	< 5 dB
Max. Output level (dBμV)	2 x 105 dBμV
Connector	F-female
Impedance	75 Ω
Power supply	230 VAC / 50 Hz, 3 W
Measurements (mm)	125 x 95 x 34 mm.
Weight	550 g

Item	Code	EAN 13	Description	Package
ICT-I2	0792392	8426487008261	Amplifier for inside home for TV and cable	100

Connectors and adaptors.



- F Connectors for coaxial cable, for connections to the various network elements, of 75 Ω.
- Adaptor F-F.
- IEC elbow connectors, to access the socket to TV and SAT signal, of 75 Ω, male and female.
- Shielded T adaptors.
- Load adapted to 75 Ω for type F.

Item	Code	EAN 13	Description	Package
ICT-F	0792319	8426487923199	Connectors F(6,8Ø/4,6Ø)	100
ICT-CEIM	0792320	8426487003099	Connectors IEC 9.5 mm	100
ICT-CEIH	0792321	8426487003105	Connectors IEC 9.5 mm	100
ICT-CARGAF	0792324	8426487003112	Load 75 Ω, type F	100
ICT-F/F	0792618	8426487023998	Coupler F-F	100
ICT-TVT/M	0792616	8426487023974	T male adaptor	1
ICT-TVT/H	0792617	8426487023981	T female adaptor	1

Coaxial cable extension.



Item	Code	EAN 13	Description	Package
ICT-COAX H-M	0792394	8426487023745	Coaxial Extension male-female IEC	1
ICT-COAX M-M	0792393	8426487023721	Coaxial Extension male-male IEC	1



General characteristics.

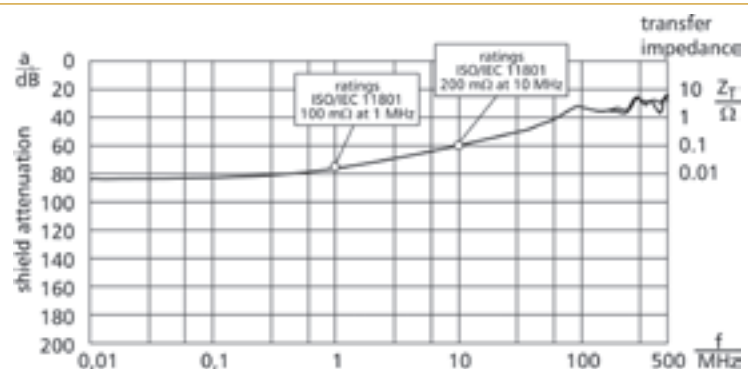
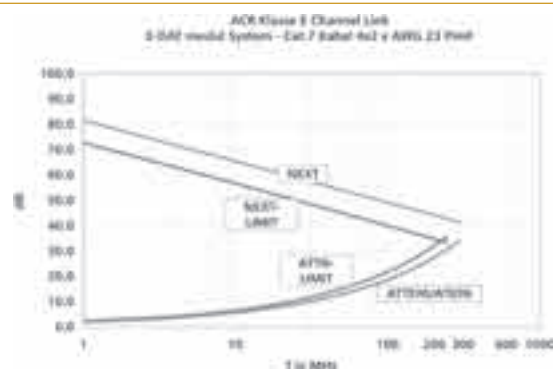
- Products for Category 6, in accordance with IEC 60603-7-5.
- Class E up to 250 MHz in accordance with ISO / IEC 11801:9/2002 and EN50173-1:2002.

ACR>30dB to 100 MHz

ACR>10dB to 250 MHz

- In compliance with EMI, EN 55022, EN 50082T1 regulations on electromagnetic issues.
- Classes and Categories mentioned above correspond to the following Standards:

- Cat 6 in accordance with ISO/IEC 11801:9/2002 and EN50173-1:2002
- Cat 6, channel link, in accordance with EIA/TIA 564-B.2-1
- Class E, in accordance with ISO/IEC 11801:9/2002 and EN50173-1:2002



RJ-45 female connection modules.

Screened modules for FTP and SFTP cable.



- Class E/Cat 6 Link.
- Individually screened RJ45 modules for FTP or SFTP cable
- Connectors with colour-coded identification in accordance with EIA/TIA-568B
- Complete shielding of all the connections.
- For calibre AWG 22-24 conductors.
- Easy and quick assembly. Connection by insulation displacement.
- Re-usable modules, easy re-opening.
- Includes flange to clamp screening in SFTP cable.
- To be mounted either on work position or on the distributing panel.
- Data transmission rate of up to 10 Gbits/s (**10 Gigabit Ethernet**).

Item	Code	EAN 13	Description	Pack
RJ45-H Cat6 FTP	0792400	8426487018994	Screened connector Cat 6 for FTP and SFTP cable. Includes flange for clamping cable	10

Modules coupler at 90° and at 180°.



- Coupler for modules Cat 6/Class E. Application in connections at 90° and 180°.
- Metal chassis, fully screened.
- Valid for speeds of up to 1 Gigabit/s
- Very compact design.
- Cable output at 90°, provides very little depth in the installation.

Item	Code	EAN 13	Description	Pack
RJ45 90° Cat6 FTP	0792403	8426487019038	Coupler for connections at 90° fully screened.	10
RJ45 180° Cat6 FTP	0792404	8426487019045	Coupler for connections at 180° fully screened.	10

Unscreened modules for UTP cable.



- Unscreened RJ45 modules for UTP cable.
- Connectors with colour-coded identification in accordance with EIA/TIA-568B
- For AWG 22-24 calibre conductors.
- Easy and quick assembly. Connection by insulation displacement.
- Re-usable modules, easy re-opening.
- To be mounted either on work position and on the distributing panel.
- Data transmission rate of up to 10 Gbits/s (**10 Gigabit Ethernet**).

Item	Code	EAN 13	Description	Pack
RJ45-H Cat6 UTP	0792401	8426487019014	Unscreened connector Cat 6 for UTP cable.	10
RJ45-H Cat5e UTP	0792402	8426487019021	Unscreened connector Cat 5 for UTP cable.	10

For compatibility with **Keystone system**.

Item	Code	EAN 13	Description	Pack
RJ45-H Cat6 UTP Key	0792517	8426487022519	Unscreened connector Cat 6 for UTP cable. Keystone system.	10
RJ45-H Cat5e UTP Key	0792516	8426487022502	Unscreened connector Cat 5e for UTP cable. Keystone system.	10



Coaxial cable modules.

- Female connectors for final connections in star type installations, with coaxial cable.
- F, IEC male, IEC female connectors.
- Coupler to install in the patch panels, rosettes or under-floor systems.
- Compatible with the IP67 systems for industrial installations.

Item	Code	EAN 13	Description
F/F	0792405	8426487019052	F connector with coupler.
IEC-M/F	0792406	8426487019069	IEC male connector with coupler.
IEC-H/F	0792407	8426487019076	IEC female connector with coupler.



Optic fibre modules.

- LC duplex and ST connectors, with coupler for direct installation on patch panels, rosettes or under-floor systems.
- Specifically designed to take the optic fibre directly to the user position.
- Connectors for multimode fibres.

Item	Code	EAN 13	Description
LC-H	0792510	8426487022205	LC duplex connector with coupler. For multimode fibre.
ST-H	0792511	8426487022281	ST duplex connector with coupler. For multimode fibre.



Telephone/Ethernet adaptors.

- Telephone/Ethernet diplexer (separator in telephone and Ethernet connection) and Ethernet/Ethernet (separator in 2 Ethernet connections).
- Set with 2 parts.

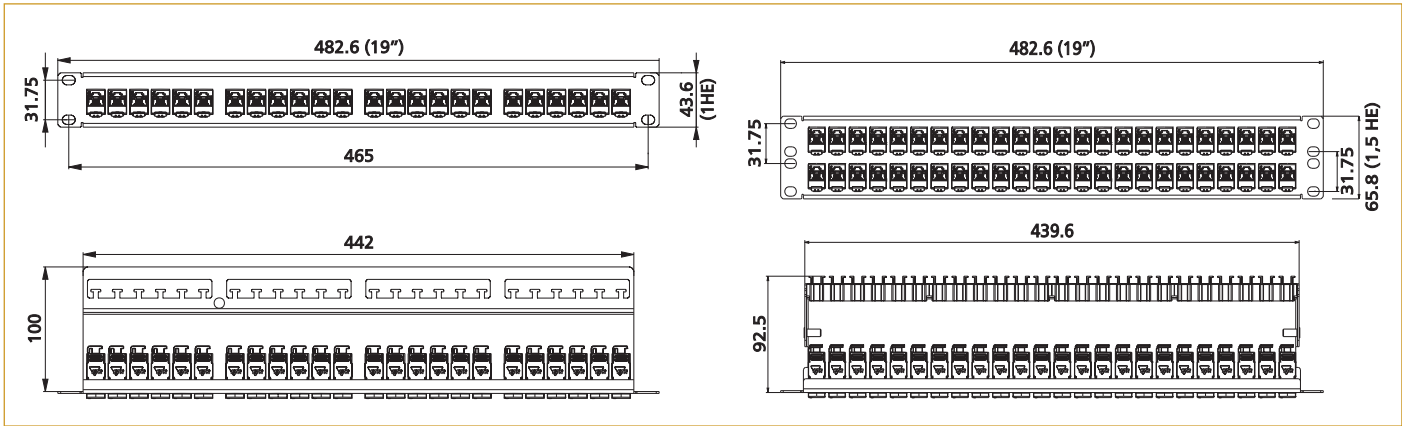
Item	Code	EAN 13	Description	Pack
IT-DIP-T/E	0792570	8426487025114	Telephone/Ethernet diplexer	1
IT-DIP-E/E	0792571	8426487025121	Ethernet/Ethernet diplexer	1



19" panels

- 19" Panels manufactured in high-quality steel.
- Modular panels (empty) and integrated with connectors RJ45-H Cat 6 FTP.
- Cable organiser included.
- 24 or 48 connection ports.
- The integrated panel includes an automatic earth bar for screened connectors, FTP and SFTP.
- Includes 30 cm of earthed cable.
- **48 ports panel with a height of 1.5 U.**

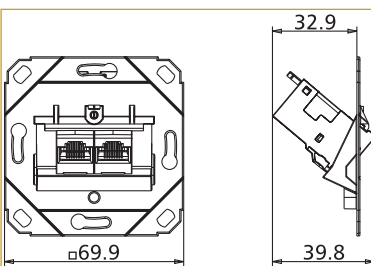
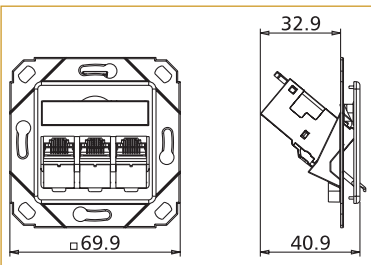
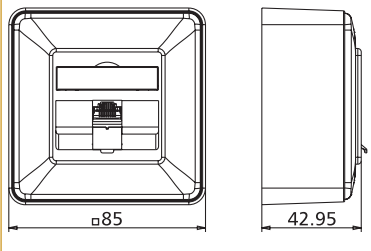
Item	P.V.P. / ud	Code	EAN 13	Description
PPI-24 HS		0792410	8426487019106	Integrated 19" panel with 24 RJ45-H Cat 6 FTP RJ45 screened modules included.
PPV-24 HS		0792408	8426487019083	Modular 19" panel, allows including 24 connectors for screened cable or unscreened cable
PPI-48 HS		0792411	8426487019113	Integrated 19" panel with 48 modules RJ45-H Cat 6 FTP including screened
PPV-48 HS		0792409	8426487019090	Modular 19" panel, allows including 48 connectors for screened cable or unscreened cable
PPV-24 HS-E		0792558	8426487023035	Modular 19" panel, allows including 48 connectors for screened cable or unscreened cable. Extractable front.
PPV-24 HS Key		0792518	8426487022526	Modular 19" panel, allows including 24 connectors. Keystone System.
PPI-24-110		0792519	8426487022533	Compact integrated 19" panel Cat 5 with 28 ports. Rear connection in accordance with system 110.
PPI-24-110 Cat 6		0792572	8426487025138	Compact integrated 19" panel Cat 6 with 28 ports. Rear connection in accordance with system 110.
PPI-25 Cat3		0792561	8426487023356	19" panel Cat 3 for telephone connections, 25 ports.
PPI-50 Cat3		0792200	8426487024889	19" panel Cat 3 for telephone connections, 50 ports
PG-5		0792413	8426487019137	19" panel with cable organiser.
M-3		0792412	8426487019120	19" frame to couple the active elements.



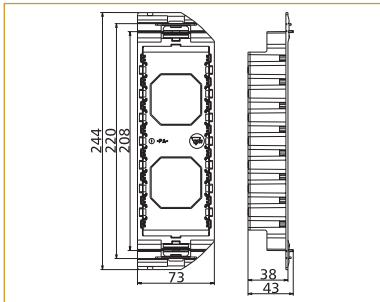
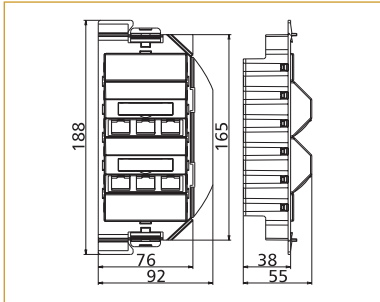
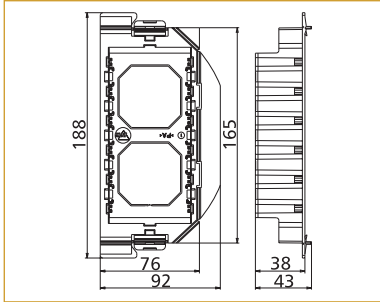
User position

Rosettes and sockets.

- Rosettes for connection with user position, for 1, 2 or 3 RJ-45 ports.
- Coupling of connector RJ45-H Cat 6 FTP or RJ45-H Cat 6 UTP at 45°.
- Port identification window.
- Dust-protection included.
- Colour RAL 9010.
- Surface and built-in versions, of measurements compatible with standard mechanism.



Item	Code	EAN 13	Description
T1-Sup Cat 6	0792414	8426487019144	1 port surface rosette. Includes socket for RJ45 connector of any type and embellisher with identification window
T1-Emp Cat 6	0792415	8426487019151	1 port built-in rosette. Includes socket for RJ45 connector of any type and embellisher with identification window
T1-Emp S/E Cat 6	0792416	8426487019168	Socket for 1 RJ45 connector of any type with identification window
T1-Emp V Cat 6	0792417	8426487019175	Socket for 1 RJ45 connector of any type. Does not include embellisher with identification window
T2-Sup Cat 6	0792418	8426487019182	2 ports surface rosette. Includes socket for 2 RJ45 connectors of any type and embellisher with identification window
T2-Emp Cat 6	0792419	8426487019199	Built-in rosette for 2 ports. Includes socket for 2 RJ45 connectors of any type and embellisher with identification window
T2-Emp S/E Cat 6	0792420	8426487019205	Socket for 2 RJ45 connectors of any type with identification window
T2-Emp V Cat 6	0792421	8426487019212	Socket for 2 RJ45 connectors of any type. Does not include embellisher with identification window
T3-Emp Cat 6	0792422	8426487019229	Built-in rosette for 3 ports. Includes Socket for 2 RJ45 connectors of any type and embellisher with identification window
T3-Emp S/E Cat 6	0792423	8426487019236	Socket for 3 RJ45 connectors of any type and embellisher with identification window
T3-Emp V Cat 6	0792424	8426487019243	Socket for 3 RJ45 connectors of any type. Does not include embellisher with identification window



User position.

Under-floor systems.

- User access to the socket for under-floor systems.
- GB2 and GB3 systems
- Compatible with Ackermann, Obo Bettermann and Niedax under-floor systems.
- Versions for 3, 6 and 9 ports, RJ45-H Cat 6 FTP or RJ45-H Cat 6 UTP
- Includes tray, coupler for connectors, embellisher with identification window and non-visible lids.
- Coupling for RJ45-H Cat 6 FTP or RJ45-H Cat 6 UTP connector at 45°.
- Black Tray, RAL 1013 outside parts.

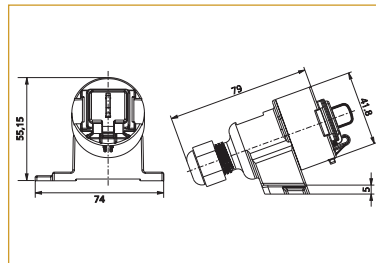
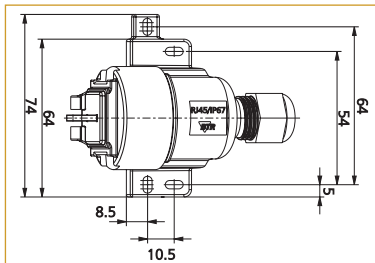
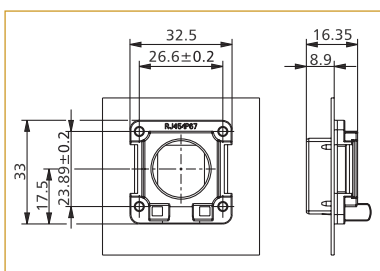
Item	Code	EAN 13	Description
GB2-UFB	0792425	8426487019250	Empty GB2 tray
GB2-3-UFB	0792426	8426487019267	Full GB2 Set of 2 ports. Includes tray, 1 coupler for 3 connectors, 1 embellisher with 3 windows and 4 non-visible lids
GB2-6-UFB	0792427	8426487019274	Full GB2 set of 6 ports. Includes tray, 2 couplers for 3 connectors, 2 embellishers with 3 windows and 2 non-visible lids
GB3-UFB	0792428	8426487019281	Empty GB3 tray
GB3-3-UFB	0792429	8426487019298	Full GB3 set of 3 ports. Includes tray, 1 coupler for 3 connectors, 1 embellisher with 3 windows and 6 non-visible lids
GB3-6-UFB	0792430	8426487019304	Full GB3 set of 6 ports. Includes tray, 2 couplers for 3 connectors, 2 embellishers with 3 windows and 4 non-visible lids
GB3-9-UFB	0792512	8426487022298	Full GB3 set of 9 ports. Includes tray, 3 couplers for 3 connectors, 3 embellishers with 3 windows and 2 non-visible lids
TC-UFB	0792431	8426487019311	Non-visible lid
EB-UFB	0792432	8426487019328	3 window embellisher
AC-UFB	0792433	8426487019335	Coupler for RJ45 connectors

With the increasing need for data transmission in accordance with Ethernet protocol in environments seriously exposed to pollution; Koban includes a data scope product line with IP67. The IP67 sockets and protectors guarantee Cat 6 in accordance with ISO/IEC 11801:9/2002 and EN50173-1:2002.

IP67 protector for RJ-45 connector.

- Socket providing the RJ-45 connector with protection in 360°, with excellent performance with electromagnetic interferences.
- With a hermetically closed lid, it protects the socket when not in use, preventing entry of dust and water.

Item	Code	EAN 13	Description
ACLP-IP67-B	0792481	8426487019830	IP67 Protector for RJ45-H Cat 6 FTP connector with overlap for fixing with screws
ACLP-IP67	0792480	8426487019823	IP67 Protector for RJ45-H Cat 6 FTP connector without overlap for fixing with screws
MF-IP67	0792482	8426487019847	Protection lid of RJ45-H Cat 6 FTP connector. IP67 level closing lip

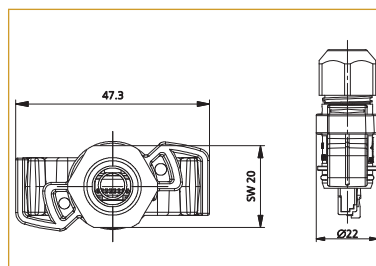
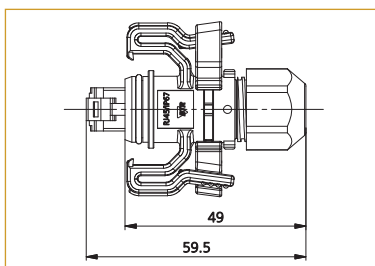


RJ-45 male connector, IP67.

- RJ-45 connector, protected all round its diameter.
- To couple in ACLP-IP67-B or ACLP-IP67, guaranteeing IP67 level for the connection.
- Exchangeable Clamp, even with the connector installed.
- Protected against unintentional opening.
- Crimping usual tool for the connection of the 8 cables in the male connector.



Item	Code	EAN 13	Description
PLUG-IP67	0792483	8426487019854	IP67 protector for RJ 45 –PLUG connector. Includes all the parts in the photograph.
RJ45M-IP67	0792484	8426487019861	RJ 45 –PLUG connector
LC-IP67	0792485	8426487019878	IP67-PLUG clamp





Couplings in IP67.

- Connection Couplings with the 2 ends in IP67 or one in IP67 and the other one in RJ45.

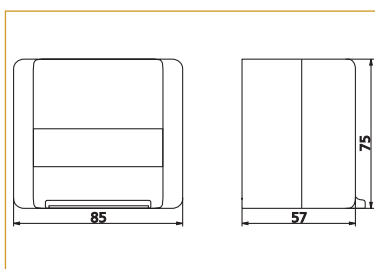
Item	Code	EAN 13	Description	Pack
PC 500 2xIP-67	0792493	8426487019953	Coupling SFTP, 5m with the two ends IP67	1
PC 1000 2xIP-67	0792494	8426487019960	Coupling SFTP, 10m with the two ends IP67	1
PC 1500 2xIP-67	0792495	8426487019977	Coupling SFTP, 15m with the two ends IP67	1
PC 2000 2xIP-67	0792496	8426487019984	Coupling SFTP, 20m with the two ends IP67	1
PC 500 RJ45-IP67	0792497	8426487019991	Coupling SFTP, 5m one end in RJ45 and the other one in IP67	1
PC 1000 RJ45-IP67	0792498	8426487020003	Coupling SFTP 10m, one end in RJ45 and the other one in IP67	1
PC 1500 RJ45-IP67	0792499	8426487020010	Coupling SFTP 15m, one end in RJ45 and the other one in IP67	1
PC 2000 RJ45-IP67	0792500	8426487020027	Coupling SFTP 20m, one end in RJ45 and the other one in IP67	1

IP44 surface box.



- Surface box for 2 RJ45-H Cat 6 FTP, or any other port.
- Cable insert from above.
- Shock proof.
- Grey colour

Item	Code	EAN 13	Description
Box-IP44	0792486	8426487019885	IP44 box for 2 connectors

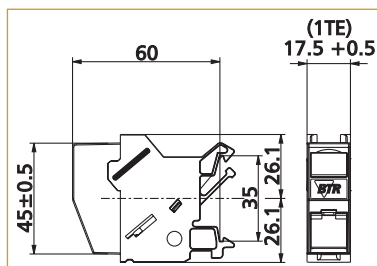


Module for DIN track.



- Network termination unit to couple a module to DIN track.
- IP20 protection level.
- For assembly on 35 mm DIN track in accordance with DIN EN 60715
- Module width > 18 mm (DIN 43880), allowing assembly of up to 12 modules in a standard distributor.
- Window for the identification of the corresponding port.
- Protected against direct contact with chassis.
- Does not include connector.

Item	Code	EAN 13	Description
Data DIN	0792479	8426487019816	Module for DIN track



Protection fixed bases**IP67 V1 fixed base.**

- Standard measurements.
- In compliance with regulation UL 94:V0
- Resistant to chemical products.
- Fixing with 4 M3 screws.
- Available in plastic or metal, which increases resistance.
- The same model for all applications: RJ45-H Cat 6 FTP connector, RJ keystone system, SC connector, LC connector.

Item	Code	EAN 13	Description
IP67-V1-BH	0792487	8426487019892	IP67, V1 fixed base

**IP67 V4 fixed base.**

- Standard measurements.
- In compliance with regulation UL 94:V0
- Resistant to chemical products.
- Fixing with 4 M3 screws.
- Available in plastic or metal, which increases resistance.
- The same model for all applications: RJ45-H Cat 6 FTP connector, RJ keystone system, SC connector, LC connector.
- Opening below for signalling or labelling.

Item	Code	EAN 13	Description
IP67-V4 BH	0792489	8426487019915	IP67, V4 fixed base

**IP67 V5 fixed base.**

- Standard measurements.
- In compliance with regulation UL 94:V0
- Resistant to chemical products.
- Fixing with 4 M3 screws.
- Available in plastic or metal, which increases resistance.
- The same model for all applications: RJ45-H Cat 6 FTP connector, RJ keystone system, SC connector, LC connector.
- Opening below for signalling or labelling.

Item	Code	EAN 13	Description
IP67-V5 BH	0792490	8426487019922	IP67, V5 fixed base

Aerial bases



IP67 V1 aerial base.

- Base for RJ male connector AWG 22 and AWG 24 .
- For 10 mm diameter cable, including cover.
- Resistant to welding drops.
- Available chassis in plastic or metal, which increases resistance.
- In compliance with regulation UL 94:V0
- Resistant to chemical products.

Item	Code	EAN 13	Description
IP67-V1 BA	0792520	8426487023042	IP67, V1 aerial base



IP67 V4 aerial base.

- High protected even when disconnected, thanks to the protection lid included, guaranteeing IP67 level.
- In compliance with regulation UL 94:V0
- Resistant to chemical products.
- If the connection is not used, the lid opens downwards, in such a way that dust cannot get inside. This prevents dust reaching the IP67 connector when opening the lid, for example, when replacing a cable.

Item	Code	EAN 13	Description
IP67-V4 BA	0792521	8426487023059	IP67, V4 aerial base



IP67 V5 aerial base.

- Base for RJ male connector AWG 22 and AWG 24 .
- For 10 mm diameter cable, including cover.
- In compliance with regulation UL 94:V0
- Resistant to chemical products.
- If the connection is not used, the lid opens downwards, in such a way that dust cannot get inside. This prevents dust reaching the IP67 connector when opening the lid, for example, when replacing a cable.

Item	Code	EAN 13	Description
IP67-V5 BA	0792522	8426487023066	IP67, V4 aerial base

Male connectors



RJ 45 male connector, IP67.

- Cat 6
- Accepts AWG 27/7-24/7 y 24/1
- Conductor diameter of 0.85 to 1.05 mm
- Cable protection of up to 7.3 mm.
- Without latch.

Item	Code	EAN 13	Description
RJ45M-IP67	0792492	8426487019946	RJ45 male connector, IP67



SC duplex male connector, IP67.

- The outside cover accepts two simple SC connectors.
- Cast zinc design.
- Accepts all the SC connection standards.

Item	Code	EAN 13	Description
SC-IP67	0792523	-	SC Duplex connector, IP67



Connector LC duplex male IP67.

- The outside cover accepts two simple CSC connectors.
- Cast zinc design.
- Accepts all LC connection standards.

Item	Code	EAN 13	Description
LC-IP67	0792524	-	LC Duplex connector, IP67

Female connectors



RJ 45 Jointer.

- Cat 6
- Its outside edges are polished to minimise dust accumulation.
- IP67 protection level.
- Earth connection on its two front sides.
- Extraordinary resistance to vibration and knocks.
- Zinc plated iron chassis.
- V1, V4, V5

Item	Code	EAN 13	Description
RJ45 CPL IP67	0792488	8426487019908	2 connectors jointer RJ45, IP 67



RJ 45 Female connector IP67.

- Cat 6
- RJ45 female connector, no special tools needed for its connection.
- Simple connection and assembly.
- Accepts AWG 27/7-22/7; AWG 24/1-22/1
- Outside edges are polished to minimise dust accumulation.
- Extraordinary resistance to vibration and knocks.
- Protects up to 10 mm cable.
- Zinc iron chassis.
- V1, V4, V5

Item	Code	EAN 13	Description
RJ45H-IP67	0792491	8426487019939	RJ45 female connector



SC duplex coupler

- Valid for bases V1, V4 y V5.
- Valid for multimode and single mode fibre.

Item	Code	EAN 13	Description
SC CPL-IP67	0792525	-	SC Duplex coupler



LC duplex coupler

- Valid for bases V1, V4 y V5.
- Valid for multimode and single mode fibre.

Item	Code	EAN 13	Description
LC CPL-IP67	0792526	-	LC Duplex coupler



Couplings.

Cat 6.

- Couplings for the rack and user positions, screened, (FTP, SFTP) and unscreened (UTP).
- RJ-45 connectors useful life: > 750 connections.
- Measurements of the RJ45 connector in accordance with IEC 603-7
- Nominal voltage: 30Vac/ 42 Vdc
- Nominal power: 1.5 A
- Insulation resistance > 500 MW.
- In compliance with EN 55022 Class B and EN 50082 for screening.
- Complies with regulations for channelling in accordance with Class E, ISO 11801:2002, EN 50173:2003.

Item	Code	EAN 13	Description	Pack
FTP 050-G 2xRJ-45	0792434	8426487019342	Coupling FTP, SFTP grey 0.5 m Cat 6	1
FTP 100-G 2xRJ-45	0792435	8426487019359	Coupling FTP, SFTP grey 1 m Cat 6	1
FTP 200-G 2xRJ-45	0792436	8426487019366	Coupling FTP, SFTP grey 2 m Cat 6	1
FTP 300-G 2xRJ-45	0792437	8426487019373	Coupling FTP, SFTP grey 3 m Cat 6	1
FTP 500-G 2xRJ-45	0792438	8426487019397	Coupling FTP, SFTP grey 5 m Cat 6	1
FTP 050-Y 2xRJ-45	0792439	8426487019403	Coupling FTP, SFTP yellow 0.5 m Cat 6	1
FTP 100-Y 2xRJ-45	0792440	8426487019410	Coupling FTP, SFTP yellow 1 m Cat 6	1
FTP 200-Y 2xRJ-45	0792441	8426487019427	Coupling FTP, SFTP yellow 2 m Cat 6	1
FTP 300-Y 2xRJ-45	0792442	8426487019434	Coupling FTP, SFTP yellow 3 m Cat 6	1
FTP 500-Y 2xRJ-45	0792443	8426487019441	Coupling FTP, SFTP yellow 5 m Cat 6	1
FTP 050-GR 2xRJ-45	0792444	8426487019458	Coupling FTP, SFTP green 0.5 m Cat 6	1
FTP 100-GR 2xRJ-45	0792445	8426487019465	Coupling FTP, SFTP green 1 m Cat 6	1
FTP 200-GR 2xRJ-45	0792446	8426487019489	Coupling FTP, SFTP green 2 m Cat 6	1
FTP 300-GR 2xRJ-45	0792447	8426487019496	Coupling FTP, SFTP green 3 m Cat 6	1
FTP 500-GR 2xRJ-45	0792448	8426487019502	Coupling FTP, SFTP green 5 m Cat 6	1
FTP 050-B 2xRJ-45	0792449	8426487019519	Coupling FTP, SFTP blue 0.5 m Cat 6	1
FTP 100-B 2xRJ-45	0792450	8426487019526	Coupling FTP, SFTP blue 1 m Cat 6	1
FTP 200-B 2xRJ-45	0792451	8426487019533	Coupling FTP, SFTP blue 2 m Cat 6	1
FTP 300-B 2xRJ-45	0792452	8426487019540	Coupling FTP, SFTP blue 3 m Cat 6	1
FTP 500-B 2xRJ-45	0792453	8426487019557	Coupling FTP, SFTP blue 5 m Cat 6	1
FTP 050-R 2xRJ-45	0792454	8426487019564	Coupling FTP, SFTP red 0.5 m Cat 6	1
FTP 100-R 2xRJ-45	0792455	8426487019571	Coupling FTP, SFTP red 1 m Cat 6	1
FTP 200-R 2xRJ-45	0792456	8426487019588	Coupling FTP, SFTP red 2 m Cat 6	1
FTP 300-R 2xRJ-45	0792457	8426487019595	Coupling FTP, SFTP red 3 m Cat 6	1
FTP 500-R 2xRJ-45	0792458	8426487019601	Coupling FTP, SFTP red 5 m Cat 6	1

Item	Code	EAN 13	Description	Pack
UTP 100-G 2xRJ-45	0792459	8426487019618	Coupling UTP grey 1 m Cat 6	1
UTP 200-G 2xRJ-45	0792460	8426487019625	Coupling UTP grey 2 m Cat 6	1
UTP 300-G 2xRJ-45	0792461	8426487019632	Coupling UTP grey 3 m Cat 6	1
UTP 500-G 2xRJ-45	0792462	8426487019649	Coupling UTP grey 5 m Cat 6	1
UTP 100-Y 2xRJ-45	0792463	8426487019656	Coupling UTP yellow 1 m Cat 6	1
UTP 200-Y 2xRJ-45	0792464	8426487019663	Coupling UTP yellow 2 m Cat 6	1
UTP 300-Y 2xRJ-45	0792465	8426487019670	Coupling UTP yellow 3 m Cat 6	1
UTP 500-Y 2xRJ-45	0792466	8426487019687	Coupling UTP yellow 5 m Cat 6	1
UTP 100-GR 2xRJ-45	0792467	8426487019694	Coupling UTP green 1 m Cat 6	1
UTP 200-GR 2xRJ-45	0792468	8426487019700	Coupling UTP green 2 m Cat 6	1
UTP 300-GR 2xRJ-45	0792469	8426487019717	Coupling UTP green 3 m Cat 6	1
UTP 500-GR 2xRJ-45	0792470	8426487019724	Coupling UTP green 5 m Cat 6	1
UTP 100-B 2xRJ-45	0792471	8426487019731	Coupling UTP blue 1 m Cat 6	1
UTP 200-B 2xRJ-45	0792472	8426487019748	Coupling UTP blue 2 m Cat 6	1
UTP 300-B 2xRJ-45	0792473	8426487019755	Coupling UTP blue 3 m Cat 6	1
UTP 500-B 2xRJ-45	0792474	8426487019762	Coupling UTP blue 5 m Cat 6	1
UTP 100-R 2xRJ-45	0792475	8426487019779	Coupling UTP red 1 m Cat 6	1
UTP 200-R 2xRJ-45	0792476	8426487019786	Coupling UTP red 2 m Cat 6	1
UTP 300-R 2xRJ-45	0792149	8426487022458	Coupling UTP red 3 m Cat 6	1
UTP 500-R 2xRJ-45	0792150	8426487022465	Coupling UTP red 5 m Cat 6	1

Cat 5e.

- UTP, unscreened Couplings.

Item	Code	EAN 13	Description	Pack
UTP 100-G Cat5e	0792149	8426487022458	Coupling UTP grey, 1 m Cat 5e	1
UTP 200-G Cat5e	0792150	8426487022465	Coupling UTP grey, 2 m Cat 5e	1
UTP 300-G Cat5e	0792151	8426487022472	Coupling UTP grey, 3 m Cat 5e	1
UTP 500-G Cat5e	0792152	8426487022489	Coupling UTP grey, 5 m Cat 5e	1
UTP 100-Y Cat5e	0792155	8426487024056	Coupling UTP yellow, 1 m Cat 5e	1
UTP 200-Y Cat5e	0792156	8426487024063	Coupling UTP yellow, 2 m Cat 5e	1
UTP 300-Y Cat5e	0792157	8426487024070	Coupling UTP yellow, 3 m Cat 5e	1
UTP 500-Y Cat5e	0792158	8426487024087	Coupling UTP yellow, 5 m Cat 5e	1
UTP 100-6R Cat5e	0792159	8426487024094	Coupling UTP green, 1 m Cat 5e	1
UTP 200-6R Cat 5e	0792160	8426487024100	Coupling UTP green, 2 m Cat 5e	1
UTP 300-6R Cat 5e	0792161	8426487024117	Coupling UTP green, 3 m Cat 5e	1
UTP 500-6R Cat 5e	0792162	8426487024124	Coupling UTP green, 5 m Cat 5e	1
UTP 100-B Cat 5e	0792163	8426487024148	Coupling UTP blue, 1 m Cat 5e	1
UTP 200-B Cat 5e	0792166	8426487024179	Coupling UTP blue, 2 m Cat 5e	1
UTP 300-B Cat 5e	0792164	8426487024155	Coupling UTP blue, 3 m Cat 5e	1
UTP 500-B Cat 5e	0792165	8426487024162	Coupling UTP blue, 5 m Cat 5e	1

- FTP, Screened Couplings *.

Item	Code	EAN 13	Description	Pack
FTP 100-G Cat5e	0792187	8426487024759	Coupling FTP grey, 1 m Cat 5e	1
FTP 200-G Cat 5e	0792188	8426487024766	Coupling FTP grey, 2 m Cat 5e	1
FTP 300-G Cat5e	0792189	8426487024773	Coupling FTP grey, 3 m Cat 5e	1
FTP 500-G Cat5e	0792190	8426487024780	Coupling FTP grey, 5 m Cat 5e	1

* Please request availability in other colours.



Tools for the installation of voice and data networks.

- Tools suitable for the installation of structured cabling networks.
- Allow the crimping of connectors RJ11, RJ12 and RJ45.
- Reinforced point for longer durability of the tool.
- Handle in ABS or polycarbonate, in accordance with GB/T 5169.7-1985 regulations.

Item	Code	EAN 13	Description	Pack
ITool-RJ11	0792143	8426487022366	Tool for crimping RJ11	1
ITool-RJ45	0792142	8426487022359	Tool for crimping RJ45	1
ITool-RJ45/11	0792144	8426487022373	Tool for crimping RJ45 and RJ11	1
ITool-RJ45/11/12	0792145	8426487022380	Tool for crimping RJ11, RJ12 and RJ45	1
ITool-110	0792146	8426487022403	Connection tool 110	1
CRTOOL-45	0792513	8426487022397	Tool for crimping RJ45 expert	1
ITool-PC	0792154	8426487022762	Cable stripping tool	1

Professional toolbox

Koban provides the professionals with kits with the basic tools and components for the installation of a data network.

Item	Code	EAN 13	Content		
			Item	Description	Code
LAN KIT PRO	0792527	8426487433001	MINILAN K45	LAN checker	0875081
			ITool-RJ11	Tool RJ11	0792143
			CRTOOL-45	Tool RJ45 pro	0792513
			ITool-110	Tool 110	0792146
			ITOLL-PC	Cable stripping tool	0792154
LAN KIT ST	0792528	8426487433018	MINILAN K45	LAN checker	0875081
			ITool-RJ45/11	RJ11+RJ45 Tool	0792144
			ITool-PC	Cable stripping tool	0792154
			ITool-110	Tool 110	0792146

19" mural rack cabinets for small and medium installations.



- Access to its 4 sides.
- Dismountable side and back panels.
- Moveable inside slides.
- Ventilation slots.
- Lock and key.
- Higher or lower lid for cables.
- Fine texturised black colour, oven painted.
- Toughened glass door mounted on metal frame.

Item	Code	EAN 13	Dimensions	Pack.
RACK 19-4U	0792534	8426487023226	600 x 450 x 280(4U)	1
RACK 19-6U/4	0792535	8426487023363	600 x 400 x 420(6U)	1
RACK 19-6U	0792536	8426487023370	600 x 500 x 420(6U)	1
RACK 19-9U/4	0792537	8426487023387	600 x 400 x 550(9U)	1
RACK 19-9U	0792538	8426487434206	600 x 500 x 550(9U)	1
RACK 19-12U/4	0792539	8426487023400	600 x 400 x 680(12U)	1
RACK 19-12U	0792540	8426487023417	600 x 500 x 680(12U)	1
RACK 19-15U	0792541	8426487023424	600 x 500 x 820(15U)	1

19" foot rack cabinets for large structure installations.



- Access on its four sides.
- Inside sliding racks.
- Ventilation slots.
- Lock and key.
- Upper and lower cable cover.
- Fine texturised black colour, oven painted.
- Toughened glass door mounted on metal frame.

Item	Code	EAN 13	Dimensions	Pack.
RACK 19-21U	0792542	8426487023431	600 x 600 x 1180(21U)	1
RACK 19-24U	0792543	8426487023448	600 x 600 x 1320(24U)	1
RACK 19-24U/8	0792544	8426487023455	800 x 800 x 1320(24U)	1
RACK 19-33U	0792545	8426487023462	600 x 600 x 1720(33U)	1
RACK 19-33U/8	0792546	8426487023479	800 x 800 x 1720(33U)	1
RACK 19-42U	0792547	8426487023486	600 x 600 x 2120(42U)	1
RACK 19-42U/8	0792548	8426487023493	800 x 800 x 2120(42U)	1

Accessories



Item	Code	EAN 13	Description	Pack.
RACK 19-BF2V	0792549	8426487023509	Tray with 4 fixing points and 20 for 400 and 600 mm depths	1
RACK 19-BE	0792550	8426487023516	Extendible tray with 4 fix points, two in front and two in the back, for 600 and 800 mm depths	1
RACK 19-BEx1U	0792551	8426487023523	Removable tray with 4 fixing points Mounted on 16" guides	1
RACK 19-VAI	0792552	8426487023530	Axial fan for the cooling of equipment inside cabinets	1
RACK 19-VI	0792553	8426487023547	Intermediate ventilation unit with possibility to install in any positions	1
RACK 19-VI2	0792554	8426487023554	2 fan ceiling ventilation unit	1
RACK 19-ZRA	0792555	8426487023561	Triangular base plate	1
RACK 19-RA	0792556	-	Wheel	1
RACK 19-PA	0792557	-	Leg	1
KBM-19/6	0774535	8426487025077	6 schucko multiple socket base with switch for 19" rack	1
KBM-19/7	0774536	8426487025084	7 schucko multiple socket base with switch, for 19" rack	1
KBM-19/8	0774537	8426487025091	8 schucko multiple socket base with switch, for 19" rack	1
KBM-19/9	0774538	8426487025107	9 schucko multiple socket base with switch, for 19" rack	1

Data cable

- Cable for data transmission, twisted pairs.
- UTP and FTP cable for Cat5e, up to 100Mhz supporting speeds of up to 1Gbps (Gigabit Ethernet)
- UTP and FTP cable for Cat6, up to 250Mhz supporting speeds of up to 10 Gbps (10 Gigabit Ethernet)
- IEC11801 EIA/TIA 568 standard
- Class 1 BSG360 conductor
- Insulation between pairs: Polyethylene
- Halogen free, LSZH
- Purple colour
- Temperature range: From 0° to 50 °C

Item	Code	EAN 13	Description	Pack.
UTP Cat 5e	0792530	8426487025145	UTP Cat 5e, 305 m coil cable.	1
UTP Cat 6e	0792531	8426487025152	UTP Cat 6, 305 m coil cable.	1
FTP Cat5e	0792532	8426487025169	FTP Cat 5e, 305 m coil cable.	1
FTP Cat6	0792533	8426487025176	FTP Cat 6, 305 m coil cable.	1

Optic fibre

- Components for installation of high quality multimode optic fibre.

19" panels.

- 19" panels for multimode optic fibre of 50/125 μm .
- From 12 to 24 St or SC-D connectors.
- Extractable panels or fixed to 19" rack
- Manufactured in light aluminium (less than 1700 g. including the connectors).
- Cable input through both sides.
- Port identification windows



Item	Code	EAN 13	Description
OpDat 24 ST	0792501	8426487020034	Fixed integrated panel with 24 ST connectors
OpDAT 24 ST PT	0792503	8426487020058	Fixed integrated panel with 24 St connectors and 50/125 μm pigtails
OpDAT 24 ST PT/A	0792515	-	Extractable integrated panel with 24 ST connectors and 50/125 μm pigtails
OpDAT 12 SC-D PT	0792504	8426487020065	Fixed integrated panel with 12 SC-D connectors and 50/125 μm pigtails

Panel for DIN track.

- Panel with 6 SC-D connectors and 50/125 μm pigtails.
- Cable input with the connectors pre-mounted.
- Various possibilities for cable input.



Item	Code	EAN 13	Description
OpDAT-DIN 6xSC-D PT	0792505	8426487020072	Fixed integrated panel with 6 SC-D connectors for DIN track

Sockets in user position.

Item	Code	EAN 13	Description
OpDAT-S 4xST	0792506	8426487020089	Surface socket 4 xST
OpDAT-S 2xSC-SD	0792507	8426487020096	Surface socket 2x SC-D
OpDAT-S 1xST-D	0792508	8426487020102	Individual socket 1xST-D
OpDAT-S 4xST	0792509	8426487020119	Individual socket 1xSC-D



Accessories for the installation of a fibre optic network in LAN environments

Adaptors.

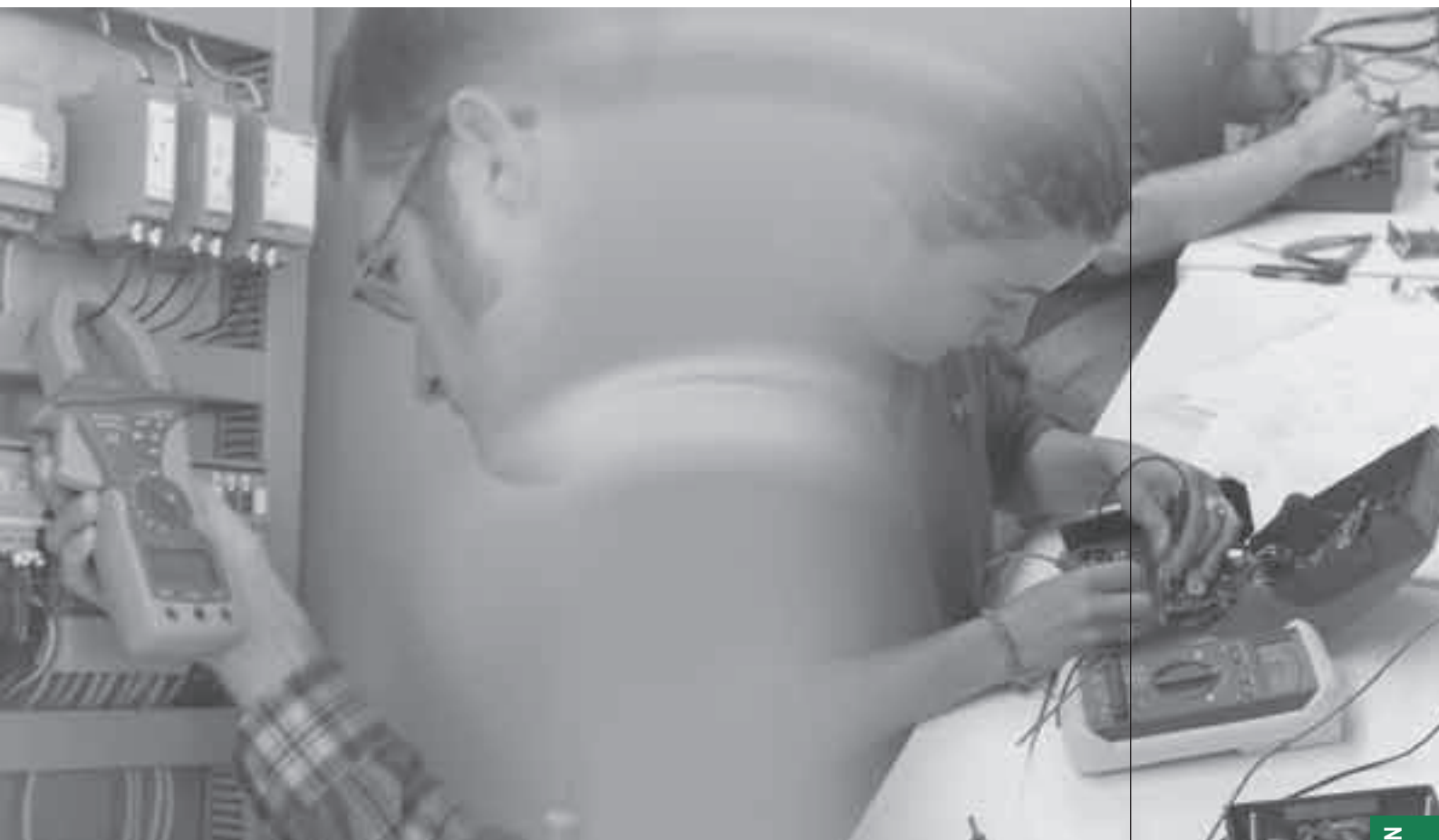
- Adaptors for the most common optic fibre connections.
- FC, SC adaptors can be installed by fusion.

Item	Code	EAN 13	Description
ICT-SC/SC	0792191	8426487024797	SC-SC simple adaptor
ICT-ST/ST	0792192	8426487024803	ST-ST simple adaptor
ICT-FC/FC	0792193	8426487024810	FC-FC simple adaptor
ICT-ST/SC Duplex	0792195	8426487024834	ST/SC double adaptor
ICT-LC/ST	0792196	8426487024841	LC-ST adaptor
ICT-LC/FC	0792197	8426487024858	LC-FC adaptor



Optic fibre Pigtails.

Item	Code	EAN 13	Description	Pack.
ICT-ST/SC - 1m	0792174	8426487024254	Pigtail F.O. M-M ST/SC 1m Duplex	1
ICT-ST/SC - 2m	0792175	8426487024261	Pigtail F.O. M-M ST/SC 2m Duplex	1
ICT-ST/SC - 3m	0792176	8426487024278	Pigtail F.O. M-M ST/SC 3m Duplex	1
ICT-ST/SC - 5m	0792177	8426487024285	Pigtail F.O. M-M ST/SC 5m Duplex	1
ICT-LC/ST - 1m	0792170	8426487024216	Pigtail F.O. M-M LC/ST 1m Duplex	1
ICT-LC/ST - 2m	0792171	8426487024223	Pigtail F.O. M-M LC/ST 2m Duplex	1
ICT-LC/ST - 3m	0792172	8426487024230	Pigtail F.O. M-M LC/ST 3m Duplex	1
ICT-LC/ST - 5m	0792173	8426487024247	Pigtail F.O. M-M LC/ST 5m Duplex	1
ICT-LC/FC - 1m	0792174	8426487024254	Pigtail F.O. M-M LC/FC 1m Duplex	1
ICT-LC/FC - 2m	0792175	8426487024261	Pigtail F.O. M-M LC/FC 2m Duplex	1
ICT-LC/FC - 3m	0792176	8426487024278	Pigtail F.O. M-M LC/FC 3m Duplex	1
ICT-LC/FC - 5m	0792177	8426487024285	Pigtail F.O. M-M LC/FC 5m Duplex	1
ICT-MTRJ/SC - 1 M	0792178	8426487024292	Pigtail F.O. M-M MTRJ/SC 1m Duplex	1
ICT-MTRJ/SC - 2 M	0792179	8426487024308	Pigtail F.O. M-M MTRJ/SC 2m Duplex	1
ICT-MTRJ/SC - 3 M	0792180	8426487024315	Pigtail F.O. M-M MTRJ/SC 3m Duplex	1
ICT-MTRJ/SC - 5 M	0792181	8426487024322	Pigtail F.O. M-M MTRJ/SC 5m Duplex	1
ICT-LC/SC - 1M	0792182	8426487024339	Pigtail F.O. M-M LC/SC 1m Duplex	1
ICT-LC/SC - 2M	0792183	8426487024346	Pigtail F.O. M-M LC/SC 2m Duplex	1
ICT-LC/SC - 3M	0792184	8426487024353	Pigtail F.O. M-M LC/SC 3m Duplex	1
ICT-LC/SC - 5M	0792185	8426487024360	Pigtail F.O. M-M LC/SC 5m Duplex	1



Quality of
electricity energy



Uninterrupted power supply systems.**GUARANTEE
3 YEARS****NEW****UPS In-Line Technology.**

- Includes a double stabiliser or automatic voltage regulator (AVR) in Buck-Boost mode.
- Considerably prolongs the useful life of the battery, as this is not used as frequently as in the off-line technology.
- The output voltage is a square wave, not recommended for motors and general inductive loads.

ALPHA 600-2400 LCD. UPS with LCD screen.

- 6 UPS In-Line models with battery switch-on function included.
- Automatic re-starts up.
- Its screen allows the user to view the information on the supply, battery status and protection of the electric equipment connected.
- Serial port RS-232, DB9 or USB for PC communication. The UPS status can be seen in the PC, as well as receive alarms, save and close all the files automatically, switch off the PC, etc.
- Cables and software included.

Item	Code	EAN 13	Description
ALPHA 600 LCD	0877506	8426487435418	Power 600 VA/300W. Voltage 230V AC/50Hz. Switch time < 4mseg. Autonomy of up to 20 min. Battery: 12V-7Ah. Measurements: 320 x 90 x 165 mm. Weight: 6.5 Kg. Cables included. 3 sockets.
ALPHA 800 LCD	0877507	8426487435425	Power 800 VA/420W. Voltage 230V AC/50Hz. Switch time < 4mseg. Autonomy of up to 20 min. Battery: 12V-7Ah. Measurements: 320 x 90 x 165 mm. Weight: 7 Kg. Cables and SW included. 3 sockets.
ALPHA1200 LCD	0877508	8426487435432	Power 1200 VA/600W. Voltage 230V AC/50Hz. Switch time < 4mseg. Autonomy of up to 20 min. Batteries: 2x12V-7Ah. Measurements: 380 x 120 x 210 mm. Weight: 13.5 Kg. Cables and SW included. 5 sockets.
ALPHA1400 LCD	0877509	8426487435449	Power 1400 VA/720W. Voltage 230V AC/50Hz. Switch time < 4mseg. Autonomy of up to 20 min. Batteries: 2x12V-7Ah. Measurements: 380 x 120 x 120 mm. Weight: 14 Kg. Cables and SW included. 5 sockets.
ALPHA2000 LCD	0877510	8426487435456	Power 2000 VA/1000W. Voltage 230V AC/50Hz. Switch time < 4mseg. Autonomy of up to 20 min. Batteries: 3x12V-7Ah. Measurements: 450 x 156 x 215 mm. Weight: 20 Kg. Cables and SW included. 5 sockets.
ALPHA2400 LCD	0877511	8426487435463	Power 2400 VA/1200W. Voltage 230V AC/50Hz. Switch time < 4mseg. Autonomy of up to 20 min. Batteries: 3x12V-9Ah. Measurements: 450 x 156 x 215 mm. Weight: 23 Kg. Cables and SW included. 5 sockets.

UPS. IN-Line technology.**NEW****GUARANTEE
3 YEARS****ALPHA 650 ipE. UPS with 6 schuko sockets.**

- Easy to access platform with 3 schuko sockets with surge protection and another 3 with dual protection.
- Ideal for direct connection to the computer all peripherals.
- USB connector and RJ11 socket for protection of the telephone/fax/modem.
- Includes software for control and management of files (saves and closes) and auto switch-off of the PC, adjustable by the user.
- Microprocessor controlled, with surge protection and alarms.

Item	Code	EAN 13	Description
ALPHA 650 IPE	0877500	8426487435357	Power: 650VA/325W. Voltage 220-240VAC, 50Hz, Voltage range: 172-288V. Autonomy: up to 20 min. Switch time: < 4 ms. Battery: 12V, 7Ah., maintenance free. Measurements: 277 X 182 X 120 mm. Weight: 5.8 Kg. Includes software and cables

NEW**ALPHA 500-800iSX. UPS with automatic start-up.**

- Two UPS In-Line models (500 and 800 VA) for personal and professional use.
- AVR Buck-Boost technology for stabilisation of the RMS value of the voltage.
- In the event of power failure, it starts up automatically when the supply is re-established.
- 4 European sockets CEI: 1 with surge protection and 3 with dual protection.
- USB port, RJ11 sockets and monitoring and management software.
- Common characteristics: Voltage: 220-240V/50 Hz. Voltage range: 162-268V. Switch time: < 4ms. Autonomy: up to 20 min. Measurements: 100 X 330 X 140 mm. Includes software and cables

Item	Code	EAN 13	Description
ALPHA 500 ISX	0877501	8426487435364	Power: 500VA/260W Battery: 12V-4.5 Ah Weight: 5Kg.
ALPHA 800 ISX	0877502	8426487435371	Power: 800VA/420W Battery: 12V/7Ah Weight: 6Kg.

UPS. Technology IN-Line.

NEW



GUARANTEE
3 YEARS

ALPHA 1200-1600 SX.

- Four UPS IN-Line models, ideal for the protection of computers and peripherals for average level powers.
- AVR, Buck-Boost system.
- 4 European CEI sockets with dual surge protection, voltage gaps and power failures.
- USB port, Software and RJ11/RJ45 sockets.
- Common characteristics:
Voltage: 230 VAC / 50 Hz. Voltage range: 175 - 285 V. Switch time : < 4 ms.
Autonomy: up to 20 min. Include SW and cables.

Item	Code	EAN 13	Description
ALPHA1200 SX	0877512	8426487435470	Power: 1200 VA / 600 W. Battery: (12V - 7 Ah) X 2. Measurements: 304 X 120 X 196 mm. Weight: 13 Kg.
ALPHA1600 SX	0877513	8426487435487	Power: 1600 VA / 800 W. Battery: (12V - 7 Ah) X 2. Measurements: 304 X 120 X 196 mm. Weight: 14.3 Kg.

NEW



Alpha 750-1200 PS.

- Three new generation UPS IN-Line models.
- New design, reduced size.
- AVR and toroidal transformer included.
- Continuous AUTO DIAGNOSIS model.
- RS232 or USB port and auto switch-off software.
- Voltage: 230 VAC/50Hz. Range +25%. Switch time < 4 mseg. Autonomy: up to 20 min.

Item	Code	EAN 13	Description
ALPHA 750 PS	0877503	8426487435388	Power: 750 VA / 360 W. Battery: 12V – 7.2 Ah Measurements: 275 X 110 X 202 mm. Weight: 5.3 Kg.
ALPHA1000 PS	0877504	8426487435395	Power: 1000 VA / 480 W. Battery: 12V – 7.2 Ah Measurements: 275 X 110 X 202 mm. Weight: 5.9 Kg.
ALPHA1200 PS	0877505	8426487435401	Power: 1200 VA / 600 W. Battery: 12V - 9 Ah Measurements: 275 X 110 X 202 mm. Weight: 6.5 Kg.

**GUARANTEE
3 YEARS****UPS. Mono-conversion ON-Line technology.**

• This technology is similar to the IN-Line technology, that is to say, it is based in a system that in the STAND-BY mode has an AVR (voltage stabiliser).

However, in this case, when working in the Battery mode, the voltage generated has a pure senoidal shape (different from that of the IN-Line, which generates a square wave).

• There is still switch time, both in the changing of mode BUCK-BOOST in the STAND-BY, as well as when going to Battery mode.

However this time is in any case less than 4 msec., not affecting any load supplied by means of a continuous source.

NEW

KOBAN INSTRUMENTATION

DELTA. Mono conversion ON-Line UPS for professional 800-3000 applications.

• This family is made up of five models, designed for information systems, network servers and sensitive equipment in office and industrial environments.

• 6 European CEI sockets with dual protection.

• Microprocessor controlled, SW and USB/RS232 port.

• LCD screen for visualisation of the equipment status.

• The SNMP card (optional) allows communication with all the computers and servers in a LAN network.

• Common characteristics: Voltage: 220-230/240 VAC (manual selection). Frequency: 50/60 Hz, (manual selection). Voltage margin: +25%. Switch time: < 4 ms. Autonomy: up to 20 min. Includes cables and SW.

Item	Code	EAN 13	Description
DELTA 800	0877514	8426487435494	Power: 800 VA / 480 W. Battery: (12V - 7.2 Ah) X 2. Measurements: 170 X 360 X 230 mm. Weight: 12.1 Kg.
DELTA 1100	0877515	8426487435517	Power: 1100 VA / 660 W. Battery: (12V - 7.2 Ah) X 2. Measurements: 170 X 360 X 230 mm. Weight: 12.1 Kg.
DELTA 1400	0877516	8426487435524	Power: 1400 VA / 840 W. Battery: (12V - 9 Ah) X 2. Measurements: 170 X 360 X 230 mm. Weight: 14.1 Kg.
DELTA 2200	0877517	8426487435531	Power: 2200 VA / 1320 W. Battery: (12V - 7.2 Ah) X 4. Measurements: 170 X 460 X 240 mm. Weight: 26.2 Kg.
DELTA 3000	0877518	8426487435548	Power: 3000 VA / 1800 W. Battery: (12V - 9 Ah) X 4. Measurements: 170 X 460 X 240 mm. Weight: 26.8 Kg.

UPS. Mono-conversion ON-Line technology.

NEW



DELTA TR. Mono-conversion ON-Line UPS tower-rack 1100-3000.

- For UPS models with double format, usable configured as tower or RACK.
- Exchangeable handles and rotatable LCD screen, for easy installation.
- 6 CEI sockets with dual protection, RJ11/RJ45.
- Port USB/RS232, management software.
- Common characteristics: Voltage: 220/230/240 VAC (manual selection). Frequency: 50/60Hz, (automatic selection). Voltage margin: +32%. Switch time: < 4 ms.
- Autonomy: up to 25 min. Includes cables and SW.

Item	Code	EAN 13	Description
DELTA TR 1100	0877519	8426487435555	Power: 1100 VA / 660 W. Battery: (12V – 7.2 Ah) X 4. Measurements: 440 X 482 X 88 (2U) mm. Weight: 24 Kg.
DELTA TR 1400	0877520	8426487435562	Power: 1400 VA / 840 W. Battery: (12V - 9 Ah) X 4. Measurements: 440 X 482 X 88 (2U) mm. Weight: 26 Kg.
DELTA TR 2200	0877521	8426487435579	Power: 2200 VA / 1320 W. Battery: (12V – 7.2 Ah) X 8. Measurements: 440 X 695 X 85 (2U) mm. Weight: 34 Kg.
DELTA TR 3000	0877522	8426487435586	Power: 3000 VA / 1800 W. Battery: (12V - 9 Ah) X 8. Measurements: 440 X 695 X 85 (2U) mm. Weight: 36 Kg.

UPS. Double-conversion ON-Line technology.

- This type of UPS carries out a double conversion permanently, that is to say, rectification + inversion.
- In the case of power failure, the direct current is supplied from the batteries; Therefore, there is no naught or power drop.
- The output voltage wave form is a pure senoide
- The alternate voltage is completely isolated from the output.
- The output voltage is always stable, regardless of the status of the input power supply.
- The input voltage tolerance range is very wide, as work is only carried out with the Battery mode when said input voltage is null.

UPS. Double conversion ON-Line technology.

NEW



OMEGA TR. Double conversion ON-Line double UPS tower -rack 1000-3000.

- Perfect protection for electric problems in any range of professional fields in systems with a high level of perturbation.
- PWM technology, allowing the user to increase the UPS autonomy as desired, with a simple installation of a set of external batteries.
- Monitoring and follow-up panel showing the network, UPS and Battery status.
- Control software. Port RS232.
- CEI sockets with dual protection. RJ11/RJ45 sockets.
- Common characteristics: Voltage: 230VAC. Voltage range: 160-280VAC. Frequency: 50/60Hz (automatic detection). Switch time: 0ms. Autonomy: up to 25 min, can be extended. Includes cables and SW.

Item	Code	EAN 13	Description
OMEGA TR 1000	0877523	8426487435593	Power: 1000VA 1700W Battery: (12V – 7.2 Ah) X 3. Number of CEI: 3. Measurements: 385 X 440 X 88 mm. (2U) Weight: 16 Kg.
OMEGA TR 2000	0877524	8426487435609	Power: 2000 VA / 1400 W. Battery: (12V – 7 Ah) X 6. Number of CEI: 6. Measurements: 385 X 440 X 132 mm. (3U) Weight: 29 Kg.
OMEGA TR 3000	0877525	8426487435616	Power: 3000 VA / 2100 W. Battery: (12V – 7 Ah) X 8. Measurements: 385 X 440 X 176 mm. (4U) Weight: 39 Kg.

**• ANY OTHER POWER OR CONFIGURATION
AVAILABLE ON REQUEST.**

• WE HAVE RACK MODULAR SYSTEMS OF 10 TO 100 KVA AVAILABLE.



Reactive energy automatic compensation systems.



It is a fact that the consumer loads usually have a high inductive nature, that is why the condenser batteries are used for the compensation of inductive currents.

This allows:

- Improved general system performance.
- Increase the active energy available.
- Reduce weaknesses in the transmission.
- Increase the quality of the voltage.
- Reduce the financial penalisation due to a low power factor.

Koban has a new system for reactive energy compensation, called

KOMBICAP. It provides great advantages to electricity professionals who seek to improve the power factor of an electricity installation by means of a high quality product which is easy to install.

Amongst its advantages we can highlight the following:

- Great versatility when combining different powers, capacity scales in keeping with technical or commercial requirements.
- Immediate availability.
- Easy maintenance, no need for specialists in the power correction field.
- Uninterrupted LED indication on the general status of the system performance.
- Possibility to increase power without replacing the cabinet. The simple process is shown below.



The **KOMBICAP** system consists of the protection + regulation cabinet and the **MCAP** capacity modules **MCAP**.

Example of the replacement of a MCAP module:



Withdraw 2 fixing screws



Remove quick connector



Remove the module to be replaced



Insert the new module

KOMBICAP cabinets



KOMBICAP EV

These are the pre-mounted and pre-cabled cabinets for the direct assembly of the MCAP modules by the electricity installer.

They are made up of the following elements:

- Structure internally subdivided in module connection units..
- A regulator to control 4, 6 or 12 condenser batteries depending on the cabinet measurements.
- Switch with block system.
- Connectors for power supply voltages.
- Easy connections for the coupling of capacity modules.
- The cabinet may be of 6 different dimensions.
- Versions available with/without load breaker switch, both in IP31 and in IP54.
- Versions for supply at 400 VAC and 230 VAC.

KOMBICAP IP31 cabinets, power supply at 400 VAC, with load breaker switch.

Item	Code	EAN 13	Description
KOMBICAP EV/400	0876105	8426487422470	IP 31 metal cabinet 360 x 420 x 360 mm., 17Kg., with load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 25kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 1/400/IP31	0876106	8426487422494	IP 31 metal cabinet 390 x 565 x 360 mm., 20Kg., with load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 62.5kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 2/400/IP31	0876107	8426487422500	IP 31 metal cabinet 720 x 565 x 360 mm., 32Kg., with load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 137.5kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 3/400/IP31	0876108	8426487422517	IP 31 metal cabinet 1300 x 565 x 360 mm., 57Kg., with load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 200kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 4/400/IP31	0876185	8426487424740	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., with load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 300kVAr (900kVAr con 2 KOMBICAP 4A anexos). For three-phase networks at 400VAC. Forced ventilation.
KOMBICAP 4A/400/IP31	0876187	8426487424764	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., with load breaker switch. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 300kVAr as annex to KOMBICAP4. CANNOT BE USED ON ITS OWN. For three-phase networks at 400VAC. Forced ventilation.
KOMBICAP 5/400/IP31	0876186	8426487424757	IP 31 metal cabinet 1950 x 1200 x 600 mm., 220Kg., with load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 600kVAr. For three-phase networks at 400VAC. Forced ventilation.



KOMBICAP 1



KOMBICAP 2

Note: for IP54 cabinets, replace the "IP31" by the "IP54" in the reference. Check price. All the IP54 cabinets include forced ventilation, with the exception of the KOMBICAP EV model.


KOMBICAP IP31 cabinets, power supply at 400 VAC, without load breaker switch.

Item	Code	EAN 13	Description
KOMBICAP EV/S/400	0876191	8426487426140	IP 31 metal cabinet 360 x 420 x 360 mm., 17Kg., without load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 25kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 1/S/400/IP31	0876192	8426487426126	IP 31 metal cabinet 390 x 565 x 360 mm., 20Kg., without load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 62.5kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 2/S/400/IP31	0876193	8426487426133	IP 31 metal cabinet 720 x 565 x 360 mm., 32Kg., without load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 137.5kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 3/S/400/IP31	0876194	8426487426522	IP 31 metal cabinet 1300 x 565 x 360 mm., 57Kg., without load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 200kVAr. For three-phase networks at 400VAC. Natural ventilation.
KOMBICAP 4/S/400/IP31	0876195	8426487426539	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., without load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 300kVAr (900kVAr with 2 KOMBICAP 4A annexes). For three-phase networks at 400VAC. Forced ventilation.
KOMBICAP 4A/S/400/IP31	0876197	8426487426553	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., without load breaker switch. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 300kVAr as annex to KOMBICAP4. CANNOT BE USED ON ITS OWN. For three-phase networks at 400VAC. Forced ventilation.
KOMBICAP 5/S/400/IP31	0876196	8426487426546	IP 31 metal cabinet 1950 x 1200 x 600 mm., 220Kg., without load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 600kVAr. For three-phase networks at 400VAC. Forced ventilation.

Note: for IP54 cabinets, replace the “IP31” by the “IP54” in the reference. Check price. All the IP54 cabinets include forced ventilation, with the exception of the KOMBICAP EV.

Table of models and maximum Capacitors of the KOMBICAP.

Model	Maximum number of scales	Maximum power kVAr
KOMBICAP EV	3	25
KOMBICAP 1	4	62,5
KOMBICAP 2	6	137,5
KOMBICAP 3	6	200
KOMBICAP 4	8 extendable to 12 with 4A cabinet	300 extendable to 900 with 4A
KOMBICAP 5	12	600



KOMBICAP EV

KOMBICAP IP31 cabinets, power supply at 230 VAC, with load breaker switch.

Item	Code	EAN 13	Description
KOMBICAP EV/230	0876401	8426487427307	IP 31 metal cabinet 360 x 420 x 360 mm., 17Kg., with load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 15kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 1/230/IP31	0876402	8426487427314	IP 31 metal cabinet 390 x 565 x 360 mm., 20Kg., with load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 25kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 2/230/IP31	0876403	8426487427321	IP 31 metal cabinet 720 x 565 x 360 mm., 32Kg., with load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 55kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 3/230/IP31	0873312	8426487018819	IP 31 metal cabinet 1300 x 565 x 360 mm., 57Kg., with load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 80kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 4/230/IP31	0873313	8426487018826	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., with load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 120kVAr (36kVAr with 2 KOMBICAP 4A annexes). For three-phase networks at 360VAC. Forced ventilation.
KOMBICAP 4A/230/IP31	0873315	8426487018840	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., with load breaker switch. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 120kVAr as annex to KOMBICAP4. CANNOT BE USED ON ITS OWN. For three-phase networks at 230VAC. Forced ventilation.
KOMBICAP 5/230/IP31	0873314	8426487018833	IP 31 metal cabinet 1950 x 1200 x 600 mm., 220Kg., with load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 240kVAr. For three-phase networks at 230VAC. Forced ventilation.

Note: for IP54 cabinets, replace the “IP31” by the “IP54” in the reference. Check price. All the IP54 cabinets include forced ventilation, with the exception of the KOMBICAP EV model.



The KOMBICAP cabinets have clearly identified female connectors, ready for the direct connection of the MCAP modules.



The IP54 versions (not available in model EV) have forced ventilation and protected grid. The regulator also has an IP54 lid.

KOMBICAP IP31 cabinets, power supply 230 VAC, without load breaker switch.

Item	Code	EAN 13	Description
KOMBICAP EV/S/230	0876408	8426487427338	IP 31 metal cabinet 360 x 420 x 360 mm., 17Kg., without load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 15kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 1/S/230/IP31	0876409	8426487427345	IP 31 metal cabinet 390 x 565 x 360 mm., 20Kg., without load breaker switch, protection and control module, 4 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 25kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 2/S/230/IP31	0876410	8426487427352	IP 31 metal cabinet 720 x 565 x 360 mm., 32Kg., without load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 55kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 3/S/230/IP31	0873296	8426487018659	IP 31 metal cabinet 1300 x 565 x 360 mm., 57Kg., without load breaker switch, protection and control module, 6 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 80kVAr. For three-phase networks at 230VAC. Natural ventilation.
KOMBICAP 4/S/230/IP31	0873297	8426487018666	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., without load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 120kVAr (360kVAr con 2 KOMBICAP 4A anexos). For three-phase networks at 230VAC. Forced ventilation.
KOMBICAP 4A/S/230/IP31	0873299	8426487018680	IP 31 metal cabinet 1950 x 600 x 600 mm., 140Kg., without load breaker switch. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 120kVAr as annex to KOMBICAP4. CANNOT BE USED ON ITS OWN. For three-phase networks at 230VAC. Forced ventilation.
KOMBICAP 5/S/230/IP31	0873298	8426487018673	IP 31 metal cabinet 1950 x 1200 x 600 mm., 220Kg., without load breaker switch, protection and control module, 12 relay module. Pre assembled, ready for the housing of MCAP modules, up to a maximum of 240kVAr. For three-phase networks at 230VAC. Forced ventilation.

Note: for IP54 cabinets, replace the "IP31" by the "IP54" in the reference. Check price. All the IP54 cabinets include forced ventilation, with the exception of the KOMBICAP EV model.



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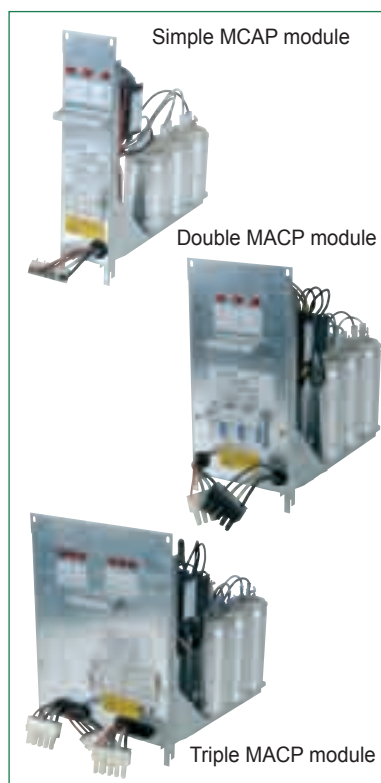


MCAP modules

Pre-mounted compensation modules designed to be inserted in the KOMBICAP system cabinet.

The compensation modules are equipped with:

- Single-phase condensers with triangle connection.
- Contactors, fuse triad, 3 red LED indicators.
- Quick connection connectors to cabinet circuit.
- Available in 3 measurements, depending on power.
- Available for supply at 400 VAC and 230 VAC.
- Available with different types of condensers, depending on application and distortion level of the wave.



Harmonic distortion level	Type of condenser		Nominal voltage of the condenser V	Power supply voltage V	Tot harm. Dist. in network THD(I)%	Tot harm. Dist. in network THD(V)%
low	ST	Standard	415	400	<7	<3
medium	ST	Standard	230	230	10 THD<20	<5
			440	400		
high	RF	Reinforced	415	400	<25	<7
			450	400		
	L/ST	Standard	230 /189Hz	230		
	L/RF	Reinforced	450 /189H	400	-	-

MCAP modules, power supply at 400 VAC, ST condensers (metalised polypropylene).

Condenser nominal voltage: 415 V

Max THDI = 7% in network.

Item	Code	EAN 13	Description
MCAP 2,5/415	0876200	8426487422524	Capacitive module Qn=2.5kVAr, ST condensers Un=415V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 5/415	0876201	8426487422531	Capacitive module Qn=5kVAr, ST condensers Un=415V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 10/415	0876202	8426487422548	Capacitive module Qn=10kVAr, ST condensers Un=415V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 12,5/415	0876203	8426487422562	Capacitive module Qn=12.5kVAr, ST condensers Un=415V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 15/415	0876204	8426487422579	Capacitive module Qn=15kVAr, ST condensers Un=415V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 20/415	0876205	8426487422586	Capacitive module Qn=20kVAr, ST condensers Un=415V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 25/415	0876206	8426487422593	Capacitive module Qn=25kVAr, ST condensers Un=415V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP EV 12,5/415	0876214	8426487422678	Triple capacitive module Qn=12.5kVAr, configuration 2.5+5+5, ST condensers Un=415V. Only valid for KOMBICAP EV. For three-phase networks at 400V.
MCAP EV 17,5/415	0876215	8426487422685	Triple capacitive module Qn=17.5kVAr, configuration 2.5+5+10, ST condensers Un=415V. Only valid for KOMBICAP EV. For three-phase networks at 400V.
MCAP EV 20/415	0876216	8426487422692	Triple capacitive module Qn=20kVAr, configuration 5+5+10, ST condensers Un=415V. Only valid for KOMBICAP EV. For three-phase networks at 400V.
MCAP EV 25/415	0876217	8426487422708	Triple capacitive module Qn=25kVAr, configuration 5+10+10, ST condensers Un=415V. Only valid for KOMBICAP EV. For three-phase networks at 400V.

Note: The MCAP modules with suffix "EV" are modules designed for KOMBICAP EV cabinets, which are in fact 3 simple modules housed in one metal chassis. They can be mounted in any KOMBICAP cabinet, although this is not recommended.

On the other hand, the KOMBICAP EV cabinets accommodate any type of MCAP module.



Detail of the automatic disconnection mechanisms and condenser discharge resistances.

MCAP modules, power supply at 400 VAC, ST condensers (metalised polypropylene).
Condenser nominal voltage: 440 V
Max THDI = 10% in network.



Detalle frontal del módulo MCAP donde se ven los datos de la placa y los LEDS indicadores del estado de los fusibles.

Item	Code	EAN 13	Description
MCAP 2,5/440	0876207	8426487422609	Capacitive module Qn=2.5kVAr, ST condensers Un=440V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 5/440	0876208	8426487422616	Capacitive module Qn=5kVAr, ST condensers Un=440V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 10/440	0876209	8426487422623	Capacitive module Qn=10kVAr, ST condensers Un=440V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 12,5/440	0876210	8426487422630	Capacitive module Qn=12.5kVAr, ST condensers Un=440V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 15/440	0876211	8426487422647	Capacitive module Qn=15kVAr, ST condensers Un=440V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 20/440	0876212	8426487422654	Capacitive module Qn=20kVAr, ST condensers Un=440V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP 25/440	0876213	8426487422661	Capacitive module Qn=25kVAr, ST condensers Un=440V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP EV 12,5/440	0876235	8426487423880	Capacitive module Qn=12.5kVAr, configuration 2.5+5+5, ST condensers Un=440V. Only valid for KOMBICAP EV. For three-phase networks at 400V.
MCAP EV 17,5/440	0876236	8426487423897	Capacitive module Qn=17.5kVAr, configuration 2.5+5+10, ST condensers Un=440V. Only valid for KOMBICAP EV. For three-phase networks at 400V.
MCAP EV 20/440	0876237	8426487423903	Capacitive module Qn=20kVAr, configuration 5+5+10, ST condensers Un=440V. Only valid for KOMBICAP EV. For three-phase networks at 400V.
MCAP EV 25/440	0876238	8426487423910	Capacitive module Qn=25kVAr, configuration 5+10+10, ST condensers Un=440V. Only valid for KOMBICAP EV. For three-phase networks at 400V.

Note: The MCAP modules with suffix "EV" are modules designed for KOMBICAP EV cabinets, which are in fact 3 simple modules housed in one metal chassis. They can be mounted in any KOMBICAP cabinet, although this is not recommended.
On the other hand, the KOMBICAP EV cabinets accommodate any type of MCAP module.

MCAP modules, power supply at 400 VAC, RF condensers (reinforced metalised polypropylene).
Condenser nominal voltage: 415 V
Max THDI = 20% in network.



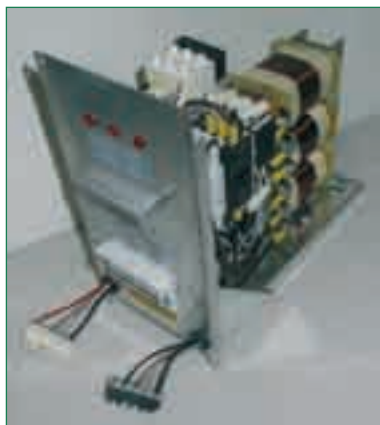
Item	Code	EAN 13	Description
MCAP RF 5/450	0876224	8426487423750	Capacitive module Qn=5kVAr, RF condensers Un=415V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP RF 10/450	0876225	8426487423767	Capacitive module Qn=10kVAr, RF condensers Un=415V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP RF 12,5/450	0876226	8426487423774	Capacitive module Qn=12.5kVAr, RF condensers Un=415V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP RF 15/450	0876227	8426487423781	Capacitive module Qn=15kVAr, RF condensers Un=415V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP RF 20/450	0876228	8426487423798	Capacitive module Qn=20kVAr, RF condensers Un=415V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.
MCAP RF 25/450	0876229	8426487423804	Capacitive module Qn=25kVAr, RF condensers Un=415V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 400V.



Simple module
1 connector
2.5-5-10-12.5 kVAr



Simple module
2 connectors
15, 20, 25 kVAr



**MCAP modules, power supply at 400 VAC, RF condensers (reinforced metalised polypropylene). Condenser nominal voltage: 450 V
Max THDI = 25% in network.**

Item	Code	EAN 13	Description
MCAP RF 5/450	0876224	8426487423750	Módulo capacitivo de Qn=5kVAr, condensadores RF de Un=450V. Ocupa 1 conector en armario KOMBICAP. Para redes trifásicas a 400V.
MCAP RF 10/450	0876225	8426487423767	Módulo capacitivo de Qn=10kVAr, condensadores RF de Un=450V. Ocupa 1 conector en armario KOMBICAP. Para redes trifásicas a 400V.
MCAP RF 12,5/450	0876226	8426487423774	Módulo capacitivo de Qn=12,5kVAr, condensadores RF de Un=450V. Ocupa 1 conector en armario KOMBICAP. Para redes trifásicas a 400V.
MCAP RF 15/450	0876227	8426487423781	Módulo capacitivo de Qn=15kVAr, condensadores RF de Un=450V. Ocupa 2 conectores en armario KOMBICAP. Para redes trifásicas a 400V.
MCAP RF 20/450	0876228	8426487423798	Módulo capacitivo de Qn=20kVAr, condensadores RF de Un=450V. Ocupa 2 conectores en armario KOMBICAP. Para redes trifásicas a 400V.
MCAP RF 25/450	0876229	8426487423804	Módulo capacitivo de Qn=25kVAr, condensadores RF de Un=450V. Ocupa 2 conectores en armario KOMBICAP. Para redes trifásicas a 400V.

Note: The MCAP modules with suffix "EV" are modules designed for KOMBICAP EV cabinets, which are in fact 3 simple modules housed in one metal chassis. They can be mounted in any KOMBICAP cabinet, although this is not recommended.
On the other hand, the KOMBICAP EV cabinets accommodate any type of MCAP module.

MCAP-L modules, power supply at 400 VAC, ST condensers (metalised polypropylene) in combination with reactances for the filtering of harmonics tuned to 189 Hz. Min. lineality 1.8 In. Condenser nominal voltage: 450 V

Item	Code	EAN 13	Description
MCAP-L-5/450	Consultar	-	Capacitive module Qn=5kVAr, 450 V condensers with anti-harmonics reactance. Occupies 2 connectors in KOMBICAP cabinet.
MCAP-L-10/450	Consultar	-	Capacitive module Qn=10kVAr, 450 V condensers with anti-harmonics reactance. Occupies 2 connectors in KOMBICAP cabinet.
MCAP-L-12,5/450	Consultar	-	Capacitive module Qn=12kVAr, 450 V condensers with anti-harmonics reactance. Occupies 2 connectors in KOMBICAP cabinet.
MCAP-L-25/450	Consultar	-	Capacitive module Qn=25kVAr, 450 V condensers with anti-harmonics reactance. Occupies 3 connectors in KOMBICAP cabinet.

MCAP modules, power supply at 230 VAC, ST condensers (metalised polypropylene).
Condenser nominal voltage: 230 V
Max THDI = 15% in network.



Triple module
3 connectors
(only for KOMBICAP EV)

Item	Code	EAN 13	Description
MCAP 2,5 KVAR 230V	0876261	8426487426690	Capacitive module Qn=2.5kVAr, ST condensers Un=230V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 230V.
MCAP 5 KVAR 230V	0876262	8426487426706	Capacitive module Qn=5kVAr, ST condensers Un=230V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 230V.
MCAP 7,5 KVAR 230V	0876263	8426487426713	Capacitive module Qn=7.5kVAr, ST condensers Un=230V. Occupies 1 connector in KOMBICAP cabinet. For three-phase networks at 230V.
MCAP 10 KVAR 230V	0876264	8426487426720	Capacitive module Qn=10kVAr, ST condensers Un=230V. Occupies 2 connectors in KOMBICAP cabinet. For three-phase networks at 230V.
MCAP EV 10/230	0873328	8428487018970	Capacitive module Qn=10kVAr, configuration 2.5+2.5+5, ST condensers Un=230V. Only valid for KOMBICAP EV. For three-phase networks at 230V.
MCAP EV 12,5/230	0873329	8426487018987	Capacitive module Qn=12.5kVAr, configuration 2.5+5+5, ST condensers Un=230V. Only valid for KOMBICAP EV. For three-phase networks at 230V.

Note: The MCAP modules with suffix "EV" are modules designed for KOMBICAP EV cabinets, which are in fact 3 simple modules housed in one metal chassis. They can be mounted in any KOMBICAP cabinet, although this is not recommended.

On the other hand, the KOMBICAP EV cabinets accommodate any type of MCAP module.

Examples of KOMBICAP combinations.

The following table includes some practical examples of KOMBICAP combinations. The possible combinations are infinite.

For any other configuration, please contact with our Customer Services or download our KOMBICAP calculation software at HYPERLINK “<http://www.temper.es>” www.temper.es



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Item	Code	EAN 13	Description
KOMBICAPEV-7,5-2/415	0876111	8426487424009	Ured=400VAC, Unc=415, Qn=7.5kVAr, Simple MCAPs 2.5+5, can be increased up to 25kVAr.
KOMBICAPEV-10-3/415	0876112	8426487424016	Ured=400VAC, Unc=415, Qn=10kVAr, Simple MCAPs 2.5+2.5+5, can be increased up to 25kVAr.
KOMBICAPEV-12,5-3/415	0876113	8426487424023	Ured=400VAC, Unc=415, Qn=12.5kVAr, Triple MCAP 2.5+5+5, can be increased up to 25kVAr.
KOMBICAPEV-15-2/415	0876114	8426487424030	Ured=400VAC, Unc=415, Qn=15kVAr, Simple MCAPs 5+10, can be increased up to 25kVAr.
KOMBICAPEV-17,5-3/415	0876115	8426487424047	Ured=400VAC, Unc=415, Qn=17.5kVAr, Triple MCAP 2.5+5+10, can be increased up to 25kVAr.
KOMBICAPEV-20-3/415	0876116	8426487424054	Ured=400VAC, Unc=415, Qn=20kVAr, Triple MCAP 5+5+10, can be increased up to 25kVAr.
KOMBICAPEV-25-3/415	0876117	8426487424061	Ured=400VAC, Unc=415, Qn=25kVAr, Triple MCAP 5+10+10.
KOMBICAP1-25-3/415	0876118	8426487424078	Ured=400VAC, Unc=415, Qn=25kVAr, configuration 5+10+10, can be increased up to 62.5kVAr.
KOMBICAP1-30-2/415	0876119	8426487424085	Ured=400VAC, Unc=415, Qn=30kVAr, configuration 10+20, can be increased up to 62.5kVAr.
KOMBICAP1-35-3/415	0876120	8426487424092	Ured=400VAC, Unc=415, Qn=35kVAr, configuration 5+10+20, can be increased up to 62.5kVAr.
KOMBICAP1-37,5-4/415	0876121	8426487424108	Ured=400VAC, Unc=415, Qn=37.5kVAr, configuration 2.5+5+10+20, can be increased up to 62.5kVAr.
KOMBICAP1-40-3/415	0876122	8426487424115	Ured=400VAC, Unc=415, Qn=40kVAr, configuration 10+10+20, can be increased up to 62.5kVAr.
KOMBICAP1-45-3/415	0876123	8426487424122	Ured=400VAC, Unc=415, Qn=45kVAr, configuration 10+15+20, can be increased up to 62.5kVAr.
KOMBICAP1-50-3/415	0876124	8426487424139	Ured=400VAC, Unc=415, Qn=50kVAr, configuration 12.5x2+25, can be increased up to 62.5kVAr.
KOMBICAP1-62,5-3/415	0876125	8426487424146	Ured=400VAC, Unc=415, Qn=62.5kVAr, configuration 12.5+2x25.
KOMBICAP2-50-3/415	0876126	8426487424153	Ured=400VAC, Unc=415, Qn=50kVAr, configuration 12.5x2+25, can be increased up to 137.5kVAr.
KOMBICAP2-65-4/415	0876127	8426487424160	Ured=400VAC, Unc=415, Qn=65kVAr, configuration 5+10+2x25, can be increased up to 137.5kVAr.
KOMBICAP2-75-4/415	0876128	8426487424177	Ured=400VAC, Unc=415, Qn=75kVAr, configuration 2x12.5+2x25, can be increased up to 137.5kVAr.
KOMBICAP2-90-5/415	0876129	8426487424184	Ured=400VAC, Unc=415, Qn=90kVAr, configuration 2x10+20+2x25, can be increased up to 137.5kVAr.
KOMBICAP2-100-5/415	0876130	8426487424191	Ured=400VAC, Unc=415, Qn=100kVAr, configuration 2x12.5+3x25, can be increased up to 137.5kVAr.
KOMBICAP2-125-6/415	0876131	8426487424207	Ured=400VAC, Unc=415, Qn=125kVAr, configuration 2x12.5+4x25, can be increased up to 137.5kVAr.
KOMBICAP2-137,5-6/415	0876132	8426487424214	Ured=400VAC, Unc=415, Qn=137.5kVAr, configuration 2x12.5+3x25+37.5.
KOMBICAP3-125-5/415	0876133	8426487424221	Ured=400VAC, Unc=415, Qn=125kVAr, configuration 2x12.5+2x25+50, can be increased up to 200kVAr.
KOMBICAP3-137,5-4/415	0876134	8426487424238	Ured=400VAC, Unc=415, Qn=137.5kVAr, configuration 12.5+25+2x50, can be increased up to 200kVAr.
KOMBICAP3-150-5/415	0876135	8426487424245	Ured=400VAC, Unc=415, Qn=150kVAr, configuration 2x12.5+25+2x50, can be increased up to 200kVAr.
KOMBICAP3-175-6/415	0876136	8426487424252	Ured=400VAC, Unc=415, Qn=175kVAr, configuration 2x12.5+2x25+2x50, can be increased up to 200kVAr.
KOMBICAP3-200-5/415	0876137	8426487424269	Ured=400VAC, Unc=415, Qn=200kVAr, configuration 2x25+3x50.

Examples of KOMBICAP combinations.



Item	Code	EAN 13	Description
KOMBICAP4-225-6/415	0876138	8426487424276	Ured=400VAC, Unc=415, Qn=225kVar, configuration 4x25+50+75, can be increased up to 300kVar.
KOMBICAP4-250-6/415	0876139	8426487424283	Ured=400VAC, Unc=415, Qn=250kVar, configuration 4x25+2x75, can be increased up to 300kVar.
KOMBICAP4-275-6/415	0876140	8426487424290	Ured=400VAC, Unc=415, Qn=275kVar, configuration 3x25+50+2x75, can be increased up to 300kVar.
KOMBICAP4-300-7/415	0876141	8426487424306	Ured=400VAC, Unc=415, Qn=300kVar, configuration 4x25+50+2x75.
KOMBICAP4+4A-400-9/415	0876149	8426487424382	Ured=400VAC, Unc=415, Qn=400kVar, configuration 4x25+3x50+2x75, can be increased up to 600kVar.
KOMBICAP4+4A-450-10/415	0876150	8426487424399	Ured=400VAC, Unc=415, Qn=450kVar, configuration 4x25+4x50+2x75, can be increased up to 600kVar.
KOMBICAP4+4A-500-0/415	0876151	8426487424405	Ured=400VAC, Unc=415, Qn=500kVar, configuration 4x25+5x50+2x75, can be increased up to 600kVar.
KOMBICAP4+4A-550-0/415	0876152	8426487424412	Ured=400VAC, Unc=415, Qn=550kVar, configuration 4x25+3x50+4x75, can be increased up to 600kVar.
KOMBICAP4+4A-600-0/415	0876153	8426487424429	Ured=400VAC, Unc=415, Qn=600kVar, configuration 4x25+50+6x75.
KOMBICAP4+4A-700-0/415	0876154	8426487424436	Ured=400VAC, Unc=415, Qn=700kVar, configuration 4x25+50+2x75+4x100, can be increased up to 900kVar.
KOMBICAP4+4A-750-0/415	0876155	8426487424443	Ured=400VAC, Unc=415, Qn=750kVar, configuration 4x25+50+2x75+3x100+150, can be increased up to 900kVar.
KOMBICAP4+4A-800-0/415	0876156	8426487424450	Ured=400VAC, Unc=415, Qn=800kVar, configuration 4x25+50+2x75+2x100+2x150, can be increased up to 900kVar.
KOMBICAP4+4A-850-0/415	0876157	8426487424467	Ured=400VAC, Unc=415, Qn=850kVar, configuration 4x25+50+2x75+100+3x150, can be increased up to 900kVar.
KOMBICAP4+4A-900-0/415	0876158	8426487424474	Ured=400VAC, Unc=415, Qn=900kVar, configuration 4x25+50+2x75+150x4.
KOMBICAP5-300-7/415	0876142	8426487424313	Ured=400VAC, Unc=415, Qn=300kVar, configuration 4x25+50+2x75, can be increased up to 600kVar.
KOMBICAP5-350-8/415	0876143	8426487424320	Ured=400VAC, Unc=415, Qn=350kVar, configuration 4x25+2x50+2x75, can be increased up to 600kVar.
KOMBICAP5-400-9/415	0876144	8426487424337	Ured=400VAC, Unc=415, Qn=400kVar, configuration 4x25+3x50+2x75, can be increased up to 600kVar.
KOMBICAP5-450-10/415	0876145	8426487424344	Ured=400VAC, Unc=415, Qn=300kVar, configuration 4x25+4x50+2x75, can be increased up to 600kVar.
KOMBICAP5-500-11/415	0876146	8426487424351	Ured=400VAC, Unc=415, Qn=300kVar, configuration 4x25+5x50+2x75, can be increased up to 600kVar.
KOMBICAP5-550-11/415	0876147	8426487424368	Ured=400VAC, Unc=415, Qn=300kVar, configuration 4x25+3x50+4x75, can be increased up to 600kVar.
KOMBICAP5-600-11/415	0876148	8426487424375	Ured=400VAC, Unc=415, Qn=300kVar, configuration 4x25+50+6x75.

Any combination is possible.

Please check our KOBAN catalogue: REACTIVE ENERGY COMPENSATION SYSTEMS for more detailed information.

ALFA System

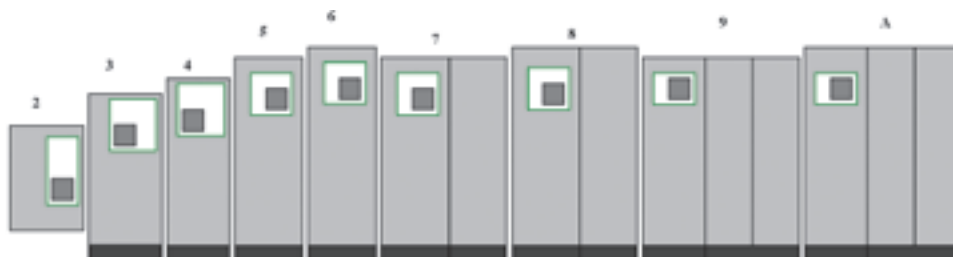
ALFA is an automatic system for reactive energy compensation, with the following components:

Metal chassis.

It also includes:

- Metal cabinet, painted in RAL7032, with door and lock
- Regulator, RDM, able to control 4, 6, or 12 MODUL modules capacitive, depending on model.
- Load breaker switch. Models without switches also available.
- Connection terminals

There are 9 different-sized cabinets:



The maximum number of MODUL modules in each case is shown below:



Models	Maximum number of MODUL
ALFA, dimensión 2	2
ALFA, dimensión 3	3
ALFA, dimensión 4	3
ALFA, dimensión 5	4
ALFA, dimensión 6	5
ALFA, dimensión 7	8
ALFA, dimensión 8	10
ALFA, dimensión 9	15

Modul

The MODUL are capacitive elements manufactured to be housed in the ALFA system cabinets.

The MODUL are also supplied separately.

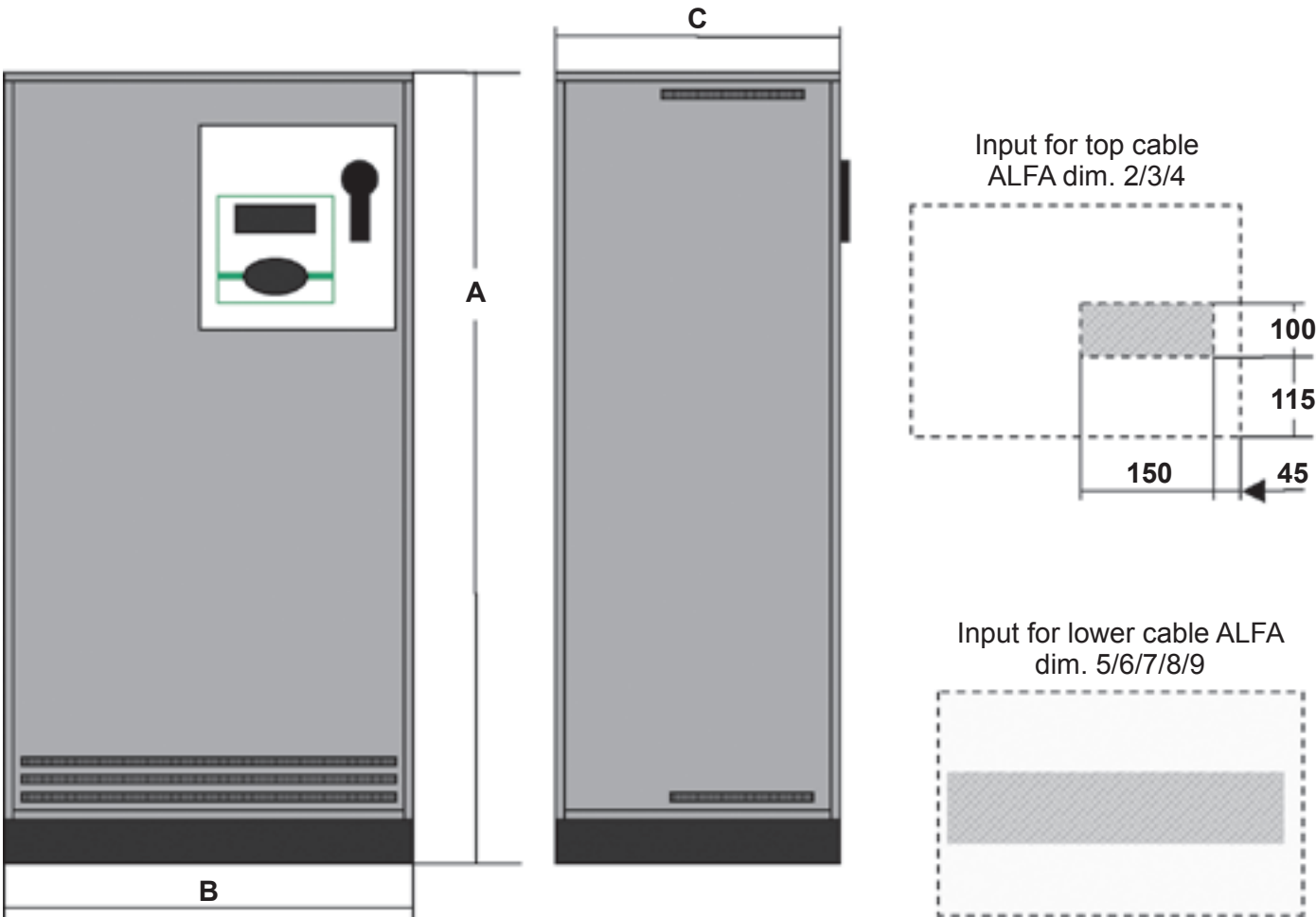
Each Modul includes:

- Mono-phase condenser triad, connected in a triangle, ST series (standard) and RF (long duration).
- Contactor, special for this type of connection.
- NH-00 protection fuses.
- Anti-harmonic reactances, in the L series
- Connection terminals



ALFA System

ALFA System measurements



Models and Measurements.

Model	Dimension	kVAr	IP31				IP54				Installation
			A	B	C	Volume m³	A	B	C	Volume m³	
ALFA ST	2	75 ÷ 137,5	720	565	360	0,2	800	600	400	0,2	Wall
	3	125 ÷ 225	1160	565	360	0,3	1300	600	400	0,4	Floor
	4	200 ÷ 300	1500	565	360	0,4	-	-	-	-	Floor
	5	300 ÷ 600	1950	600	600	0,8	2000	600	600	0,8	Floor
	6	600 ÷ 750	2150	600	600	0,9	2200	600	600	0,9	Floor
	7	750 ÷ 1.200	1950	1200	600	2,0	2000	1200	600	2,1	Floor
	8	L	2150	1200	600	1,8	2200	1200	600	1,8	Floor
ALFA RF	9	L	1950	1800	600	1,6	2000	1800	600	2,4	Floor
	2	75 ÷ 137,5	720	565	360	0,2	800	600	400	0,2	Wall
	3	125 ÷ 225	1160	565	360	0,3	1300	600	400	0,4	Floor
	4	200 ÷ 300	1500	565	360	0,4	-	-	-	-	Floor
	5	300 ÷ 600	1950	600	600	0,8	2000	600	600	0,8	Floor
	6	600 ÷ 750	2150	600	600	0,9	2200	600	600	0,9	Floor
	7	800 ÷ 1.200	1950	1200	600	2,0	2000	1200	600	2,1	Floor
	8	L	2150	1200	600	1,8	2200	1200	600	1,8	Floor
	9	L	1950	1800	600	1,6	2000	1800	600	2,4	Floor

ALFA System. List of references.

ALFA ST IP31 with load breaker switch, metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 415V

Max THDI: 7% in network

Item	Code	EAN 13	Description
ALFA2-75-3/415	0876159	8426487424481	Ured = 400VAC, Unc = 415V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2-87,5-3/415	0876160	8426487424498	Ured = 400VAC, Unc = 415V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2-100-4/415	0876161	8426487424504	Ured = 400VAC, Unc = 415V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2-112,5-4/415	0876946	8426487011957	Ured = 400VAC, Unc = 415V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2-125-4/415	0876162	8426487424511	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2-137,5-4/415	0876163	8426487424528	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-125-4/415	0876953	8426487012022	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3-137,5-4/415	0876954	8426487012039	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-150-4/415	0876164	8426487424535	Ured = 400VAC, Unc = 415V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3-162,5-4/415	0876165	8426487424542	Ured = 400VAC, Unc = 415V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3-175-4/415	0876955	8426487012046	Ured = 400VAC, Unc = 415V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3-187,5-4/415	0876166	8426487424559	Ured = 400VAC, Unc = 415V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3-200-4/415	0876167	8426487424566	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25+50x2+75
ALFA3-225-4/415	0876168	8426487424573	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25+50x2+100
ALFA4-200-5/415	0876964	8426487012138	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25x2+50x3
ALFA4-225-6/415	0876965	8426487012145	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25x3+50x3
ALFA4-250-6/415	0876169	8426487424580	Ured = 400VAC, Unc = 415V, Qn = 250 kVAr, 25x2+50x4
ALFA4-275-5/415	0876170	8426487424597	Ured = 400VAC, Unc = 415V, Qn = 275 kVAr, 25+50x3+100
ALFA4-300-6/415	0876171	8426487424603	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5-300-6/415	0876971	8426487012206	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5-325-7/415	0876172	8426487424610	Ured = 400VAC, Unc = 415V, Qn = 325 kVAr, 25+50x6
ALFA5-350-8/415	0876173	8426487424627	Ured = 400VAC, Unc = 415V, Qn = 350 kVAr, 25x2+50x6
ALFA5-375-9/415	0876972	8426487012213	Ured = 400VAC, Unc = 415V, Qn = 375 kVAr, 25x3+50x6
ALFA5-400-7/415	0876174	8426487424634	Ured = 400VAC, Unc = 415V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5-450-8/415	0876175	8426487424641	Ured = 400VAC, Unc = 415V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5-500-11/415	0876176	8426487424658	Ured = 400VAC, Unc = 415V, Qn = 500 kVAr, 25x2+50x9
ALFA5-550-9/415	0876177	8426487424665	Ured = 400VAC, Unc = 415V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5-600-10/415	0876178	8426487424672	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-600-10/415	0876982	8426487012312	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-675-9/415	0876983	8426487012329	Ured = 400VAC, Unc = 415V, Qn = 675 kVAr, 75x9
ALFA6-750-10/415	0876984	8426487012336	Ured = 400VAC, Unc = 415V, Qn = 750 kVAr, 75x10
ALFA7-800-11/415	0876990	8426487012398	Ured = 400VAC, Unc = 415V, Qn = 800 kVAr, 50x6+100x5
ALFA7-900-12/415	0876991	8426487012404	Ured = 400VAC, Unc = 415V, Qn = 900 kVAr, 75x12
ALFA7-1000-12/415	0876988	8426487012374	Ured = 400VAC, Unc = 415V, Qn = 1000 kVAr, 50x4+100x8
ALFA7-1200-11/415	0876989	8426487012381	Ured = 400VAC, Unc = 415V, Qn = 1200 kVAr, 75x6+150x5

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA ST IP31 without load breaker switch, metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 415V

Max THDI: 7% in network

Item	Code	EAN 13	Description
ALFA2S-75-3/415	0876951	8426487012008	Ured = 400VAC, Unc = 415V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2S-87,5-3/415	0876710	8426487009428	Ured = 400VAC, Unc = 415V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2S-100-4/415	0876947	8426487011964	Ured = 400VAC, Unc = 415V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2S-112,5-4/415	0876948	8426487011971	Ured = 400VAC, Unc = 415V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2S-125-4/415	0876949	8426487011988	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2S-137,5-4/415	0876950	8426487011995	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-125-4/415	0876956	8426487012053	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3S-137,5-4/415	0876957	8426487012060	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-150-4/415	0876958	8426487012077	Ured = 400VAC, Unc = 415V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3S-162,5-4/415	0876959	8426487012084	Ured = 400VAC, Unc = 415V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3S-175-4/415	0876960	8426487012091	Ured = 400VAC, Unc = 415V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3S-187,5-4/415	0876961	8426487012107	Ured = 400VAC, Unc = 415V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3S-200-4/415	0876962	8426487012114	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25+50x2+75
ALFA3S-225-4/415	0876963	8426487012121	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25+50x2+100
ALFA4S-200-5/415	0876966	8426487012152	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25x2+50x3
ALFA4S-225-6/415	0876967	8426487012169	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25x3+50x3
ALFA4S-250-6/415	0876968	8426487012176	Ured = 400VAC, Unc = 415V, Qn = 250 kVAr, 25x2+50x4
ALFA4S-275-5/415	0876969	8426487012183	Ured = 400VAC, Unc = 415V, Qn = 275 kVAr, 25+50x3+100
ALFA4S-300-6/415	0876970	8426487012190	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5S-300-6/415	0876973	8426487012220	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5S-325-7/415	0876974	8426487012237	Ured = 400VAC, Unc = 415V, Qn = 325 kVAr, 25+50x6
ALFA5S-350-8/415	0876975	8426487012244	Ured = 400VAC, Unc = 415V, Qn = 350 kVAr, 25x2+50x6
ALFA5S-375-9/415	0876976	8426487012251	Ured = 400VAC, Unc = 415V, Qn = 375 kVAr, 25x3+50x6
ALFA5S-400-7/415	0876977	8426487012268	Ured = 400VAC, Unc = 415V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5S-450-8/415	0876978	8426487012275	Ured = 400VAC, Unc = 415V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5S-500-11/415	0876979	8426487012282	Ured = 400VAC, Unc = 415V, Qn = 500 kVAr, 25x2+50x9
ALFA5S-550-9/415	0876980	8426487012299	Ured = 400VAC, Unc = 415V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5S-600-10/415	0876981	8426487012305	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-600-10/415	0876985	8426487012343	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-675-9/415	0876986	8426487012350	Ured = 400VAC, Unc = 415V, Qn = 675 kVAr, 75x9
ALFA6S-750-10/415	0876987	8426487012367	Ured = 400VAC, Unc = 415V, Qn = 750 kVAr, 75x10
ALFA7S-800-11/415	0876994	8426487012435	Ured = 400VAC, Unc = 415V, Qn = 800 kVAr, 50x6+100x5
ALFA7S-900-12/415	0876995	8426487012442	Ured = 400VAC, Unc = 415V, Qn = 900 kVAr, 75x12
ALFA7S-1000-12/415	0876992	8426487012411	Ured = 400VAC, Unc = 415V, Qn = 1000 kVAr, 50x4+100x8
ALFA7S-1200-11/415	0876993	8426487012428	Ured = 400VAC, Unc = 415V, Qn = 1200 kVAr, 75x6+150x5

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA ST IP31 with load breaker switch, metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 440V

Max THDI: 10% in network

Item	Code	EAN 13	Description
ALFA2-75-3/440	0876334	8426487013142	Ured = 400VAC, Unc = 440V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2-87,5-3/440	0876335	8426487013159	Ured = 400VAC, Unc = 440V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2-100-4/440	0876330	8426487013104	Ured = 400VAC, Unc = 440V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2-112,5-4/440	0876331	8426487013111	Ured = 400VAC, Unc = 440V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2-125-4/440	0876332	8426487013128	Ured = 400VAC, Unc = 440V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2-137,5-4/440	0876333	8426487013135	Ured = 400VAC, Unc = 440V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-125-4/440	0876342	8426487013227	Ured = 400VAC, Unc = 440V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3-137,5-4/440	0876343	8426487013234	Ured = 400VAC, Unc = 440V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-150-4/440	0876344	8426487013241	Ured = 400VAC, Unc = 440V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3-162,5-4/440	0876345	8426487013258	Ured = 400VAC, Unc = 440V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3-175-4/440	0876346	8426487013265	Ured = 400VAC, Unc = 440V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3-187,5-4/440	0876347	8426487013272	Ured = 400VAC, Unc = 440V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3-200-4/440	0876348	8426487013289	Ured = 400VAC, Unc = 440V, Qn = 200 kVAr, 25+50x2+75
ALFA3-225-4/440	0876349	8426487013296	Ured = 400VAC, Unc = 440V, Qn = 225 kVAr, 25+50x2+100
ALFA4-200-5/440	0876358	8426487013388	Ured = 400VAC, Unc = 440V, Qn = 200 kVAr, 25x2+50x3
ALFA4-225-6/440	0876359	8426487013395	Ured = 400VAC, Unc = 440V, Qn = 225 kVAr, 25x3+50x3
ALFA4-250-6/440	0876360	8426487013401	Ured = 400VAC, Unc = 440V, Qn = 250 kVAr, 25x2+50x4
ALFA4-275-5/440	0876361	8426487013418	Ured = 400VAC, Unc = 440V, Qn = 275 kVAr, 25+50x3+100
ALFA4-300-6/440	0876362	8426487013425	Ured = 400VAC, Unc = 440V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5-300-6/440	0876368	8426487013487	Ured = 400VAC, Unc = 440V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5-325-7/440	0876369	8426487013494	Ured = 400VAC, Unc = 440V, Qn = 325 kVAr, 25+50x6
ALFA5-350-8/440	0876370	8426487013500	Ured = 400VAC, Unc = 440V, Qn = 350 kVAr, 25x2+50x6
ALFA5-375-9/440	0876371	8426487013517	Ured = 400VAC, Unc = 440V, Qn = 375 kVAr, 25x3+50x6
ALFA5-400-7/440	0876372	8426487013524	Ured = 400VAC, Unc = 440V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5-450-8/440	0876373	8426487013531	Ured = 400VAC, Unc = 440V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5-500-9/440	0876374	8426487013548	Ured = 400VAC, Unc = 440V, Qn = 500 kVAr, 25x2+50x9
ALFA5-550-9/440	0876375	8426487013555	Ured = 400VAC, Unc = 440V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5-600-10/440	0876376	8426487013562	Ured = 400VAC, Unc = 440V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-600-10/440	0876386	8426487013661	Ured = 400VAC, Unc = 440V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-675-9/440	0876387	8426487013678	Ured = 400VAC, Unc = 440V, Qn = 675 kVAr, 75x9
ALFA6-750-10/440	0876388	8426487013685	Ured = 400VAC, Unc = 440V, Qn = 750 kVAr, 75x10
ALFA7-800-11/440	0876394	8426487013746	Ured = 400VAC, Unc = 440V, Qn = 800 kVAr, 50x6+100x5
ALFA7-900-12/440	0876395	8426487013753	Ured = 400VAC, Unc = 440V, Qn = 900 kVAr, 75x12
ALFA7-1000-12/440	0876392	8426487013722	Ured = 400VAC, Unc = 440V, Qn = 1000 kVAr, 50x4+100x8
ALFA7-1200-11/440	0876393	8426487013739	Ured = 400VAC, Unc = 440V, Qn = 1200 kVAr, 75x6+150x5

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA ST IP31 without load breaker switch, metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 440V

Max THDI: 10% in network

Item	Code	EAN 13	Description
ALFA2S-75-3/440	0876340	8426487013203	Ured = 400VAC, Unc = 440V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2S-87,5-3/440	0876341	8426487013210	Ured = 400VAC, Unc = 440V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2S-100-4/440	0876336	8426487013166	Ured = 400VAC, Unc = 440V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2S-112,5-4/440	0876337	8426487013173	Ured = 400VAC, Unc = 440V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2S-125-4/440	0876338	8426487013180	Ured = 400VAC, Unc = 440V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2S-137,5-4/440	0876339	8426487013197	Ured = 400VAC, Unc = 440V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-125-4/440	0876350	8426487013302	Ured = 400VAC, Unc = 440V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3S-137,5-4/440	0876351	8426487013319	Ured = 400VAC, Unc = 440V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-150-4/440	0876352	8426487013326	Ured = 400VAC, Unc = 440V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3S-162,5-4/440	0876353	8426487013333	Ured = 400VAC, Unc = 440V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3S-175-4/440	0876354	8426487013340	Ured = 400VAC, Unc = 440V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3S-187,5-4/440	0876355	8426487013357	Ured = 400VAC, Unc = 440V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3S-200-4/440	0876356	8426487013364	Ured = 400VAC, Unc = 440V, Qn = 200 kVAr, 25+50x2+75
ALFA3S-225-4/440	0876357	8426487013371	Ured = 400VAC, Unc = 440V, Qn = 225 kVAr, 25+50x2+100
ALFA4S-200-5/440	0876363	8426487013432	Ured = 400VAC, Unc = 440V, Qn = 200 kVAr, 25x2+50x3
ALFA4S-225-6/440	0876364	8426487013449	Ured = 400VAC, Unc = 440V, Qn = 225 kVAr, 25x3+50x3
ALFA4S-250-6/440	0876365	8426487013456	Ured = 400VAC, Unc = 440V, Qn = 250 kVAr, 25x2+50x4
ALFA4S-275-5/440	0876366	8426487013463	Ured = 400VAC, Unc = 440V, Qn = 275 kVAr, 25+50x3+100
ALFA4S-300-6/440	0876367	8426487013470	Ured = 400VAC, Unc = 440V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5S-300-6/440	0876377	8426487013579	Ured = 400VAC, Unc = 440V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5S-325-7/440	0876378	8426487013586	Ured = 400VAC, Unc = 440V, Qn = 325 kVAr, 25+50x6
ALFA5S-350/8/440	0876379	8426487013593	Ured = 400VAC, Unc = 440V, Qn = 350 kVAr, 25x2+50x6
ALFA5S-375-9/440	0876380	8426487013609	Ured = 400VAC, Unc = 440V, Qn = 375 kVAr, 25x3+50x6
ALFA5S-400-7/440	0876381	8426487013616	Ured = 400VAC, Unc = 440V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5S-450-8/440	0876382	8426487013623	Ured = 400VAC, Unc = 440V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5S-500-11/440	0876383	8426487013630	Ured = 400VAC, Unc = 440V, Qn = 500 kVAr, 25x2+50x9
ALFA5S-550-9/440	0876384	8426487013647	Ured = 400VAC, Unc = 440V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5S-600-10/440	0876385	8426487013654	Ured = 400VAC, Unc = 440V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-600-10/440	0876389	8426487013692	Ured = 400VAC, Unc = 440V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-675-10/440	0876390	8426487013708	Ured = 400VAC, Unc = 440V, Qn = 675 kVAr, 75x9
ALFA6S-750-11/440	0876391	8426487013715	Ured = 400VAC, Unc = 440V, Qn = 750 kVAr, 75x10
ALFA7S-800-11/440	0876398	8426487013791	Ured = 400VAC, Unc = 440V, Qn = 1000 kVAr, 50x4+100x8
ALFA7S-900-12/440	0876442	8426487013807	Ured = 400VAC, Unc = 440V, Qn = 1200 kVAr, 75x6+150x5
ALFA7S-1000-12/440	0876396	8426487013760	Ured = 400VAC, Unc = 440V, Qn = 800 kVAr, 50x6+100x5
ALFA7S-1200-11/440	0876397	8426487013777	Ured = 400VAC, Unc = 440V, Qn = 900 kVAr, 75x12

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.**ALFA RF IP31 with load breaker switch, reinforced metalised polypropylene condensers.****Power supply: 400VAC, 50Hz****Condenser nominal voltage: 415V****Max THDI: 20% in network**

Item	Code	EAN 13	Description
ALFA2-75-3/415RF	0876512	8426487014507	Ured = 400VAC, Unc = 415V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2-87,5-3/415RF	0876513	8426487014514	Ured = 400VAC, Unc = 415V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2-100-4/415RF	0876508	8426487014460	Ured = 400VAC, Unc = 415V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2-112,5-4/415RF	0876509	8426487014477	Ured = 400VAC, Unc = 415V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2-125-4/415RF	0876510	8426487014484	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2-137,5-4/415RF	0876511	8426487014491	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-125-4/415RF	0876520	8426487014583	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3-137,5-4/415RF	0873285	8426487018642	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-150-4/415RF	0876521	8426487014590	Ured = 400VAC, Unc = 415V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3-162,5-4/415RF	0876522	8426487014606	Ured = 400VAC, Unc = 415V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3-175-4/415RF	0876523	8426487014613	Ured = 400VAC, Unc = 415V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3-187,5-4/415RF	0876524	8426487014620	Ured = 400VAC, Unc = 415V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3-200-4/415RF	0876525	8426487014637	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25+50x2+75
ALFA3-225-4/415RF	0876526	8426487014644	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25+50x2+100
ALFA4-200-5/415RF	0876535	8426487014736	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25x2+50x3
ALFA4-225-6/415RF	0876536	8426487014750	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25x3+50x3
ALFA4-250-6/415RF	0876537	8426487014798	Ured = 400VAC, Unc = 415V, Qn = 250 kVAr, 25x2+50x4
ALFA4-275-5/415RF	0876538	8426487014804	Ured = 400VAC, Unc = 415V, Qn = 275 kVAr, 25+50x3+100
ALFA4-300-6/415RF	0876539	8426487014972	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5-300-6/415RF	0876545	8426487015030	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5-325-7/415RF	0876546	8426487015047	Ured = 400VAC, Unc = 415V, Qn = 325 kVAr, 25+50x6
ALFA5-350-8/415RF	0876547	8426487015061	Ured = 400VAC, Unc = 415V, Qn = 350 kVAr, 25x2+50x6
ALFA5-375-9/415RF	0876548	8426487015078	Ured = 400VAC, Unc = 415V, Qn = 375 kVAr, 25x3+50x6
ALFA5-400-7/415RF	0876549	8426487015085	Ured = 400VAC, Unc = 415V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5-450-8/415RF	0876550	8426487015092	Ured = 400VAC, Unc = 415V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5-500-11/415RF	0876551	8426487015108	Ured = 400VAC, Unc = 415V, Qn = 500 kVAr, 25x2+50x9
ALFA5-550-9/415RF	0876552	8426487015115	Ured = 400VAC, Unc = 415V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5-600-10/415RF	0876553	8426487015122	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-600-10/415RF	0876563	8426487014965	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-675-9/415RF	0876564	8426487015238	Ured = 400VAC, Unc = 415V, Qn = 675 kVAr, 75x9
ALFA6-750-10/415RF	0876565	8426487015245	Ured = 400VAC, Unc = 415V, Qn = 750 kVAr, 75x10
ALFA7-800-11/415RF	0876571	8426487015306	Ured = 400VAC, Unc = 415V, Qn = 800 kVAr, 50x6+100x5
ALFA7-900-12/415RF	0876572	8426487015313	Ured = 400VAC, Unc = 415V, Qn = 900 kVAr, 75x12
ALFA7-1000-12/415RF	0876569	8426487015283	Ured = 400VAC, Unc = 415V, Qn = 1000 kVAr, 50x4+100x8
ALFA7-1200-11/415RF	0876570	8426487015290	Ured = 400VAC, Unc = 415V, Qn = 1200 kVAr, 75x6+150x5

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA RF IP31 without load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 415V

Max THDI: 20% in network

Item	Code	EAN 13	Description
ALFA2S-75-3/415RF	0876518	8426487014569	Ured = 400VAC, Unc = 415V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2S-87,5-3/415RF	0876519	8426487014576	Ured = 400VAC, Unc = 415V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2S-100-4/415RF	0876514	8426487014521	Ured = 400VAC, Unc = 415V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2S-112,5-4/415RF	0876515	8426487014538	Ured = 400VAC, Unc = 415V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2S-125-4/415RF	0876516	8426487014545	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2S-137,5-4/415RF	0876517	8426487014552	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-125-4/415RF	0876527	8426487014651	Ured = 400VAC, Unc = 415V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3S-137,5-4/415RF	0876528	8426487014668	Ured = 400VAC, Unc = 415V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-150-4/415RF	0876529	8426487014675	Ured = 400VAC, Unc = 415V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3S-162,5-4/415RF	0876530	8426487014682	Ured = 400VAC, Unc = 415V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3S-175-4/415RF	0876531	8426487014699	Ured = 400VAC, Unc = 415V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3S-187,5-4/415RF	0876532	8426487014705	Ured = 400VAC, Unc = 415V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3S-200-4/415RF	0876533	8426487014712	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25+50x2+75
ALFA3S-225-4/415RF	0876534	8426487014729	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25+50x2+100
ALFA4S-200-5/415RF	0876540	8426487014989	Ured = 400VAC, Unc = 415V, Qn = 200 kVAr, 25x2+50x3
ALFA4S-225-6/415RF	0876541	8426487014996	Ured = 400VAC, Unc = 415V, Qn = 225 kVAr, 25x3+50x3
ALFA4S-250-6/415RF	0876542	8426487015009	Ured = 400VAC, Unc = 415V, Qn = 250 kVAr, 25x2+50x4
ALFA4S-275-5/415RF	0876543	8426487015016	Ured = 400VAC, Unc = 415V, Qn = 275 kVAr, 25+50x3+100
ALFA4S-300-6/415RF	0876544	8426487015023	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5S-300-6/415RF	0876554	8426487015139	Ured = 400VAC, Unc = 415V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5S-325-7/415RF	0876555	8426487015146	Ured = 400VAC, Unc = 415V, Qn = 325 kVAr, 25+50x6
ALFA5S-350-8/415RF	0876556	8426487015153	Ured = 400VAC, Unc = 415V, Qn = 350 kVAr, 25x2+50x6
ALFA5S-375-9/415RF	0876557	8426487015160	Ured = 400VAC, Unc = 415V, Qn = 375 kVAr, 25x3+50x6
ALFA5S-400-7/415RF	0876558	8426487015177	Ured = 400VAC, Unc = 415V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5S-450-8/415RF	0876559	8426487015184	Ured = 400VAC, Unc = 415V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5S-500-11/415RF	0876560	8426487015191	Ured = 400VAC, Unc = 415V, Qn = 500 kVAr, 25x2+50x9
ALFA5S-550-9/415RF	0876561	8426487015207	Ured = 400VAC, Unc = 415V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5S-600-10/415RF	0876562	8426487015214	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-600-10/415RF	0876566	8426487015252	Ured = 400VAC, Unc = 415V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-675-9/415RF	0876567	8426487015269	Ured = 400VAC, Unc = 415V, Qn = 675 kVAr, 75x9
ALFA6S-750-10/415RF	0876568	8426487015276	Ured = 400VAC, Unc = 415V, Qn = 750 kVAr, 75x10
ALFA7S-800-11/415RF	0876575	8426487015351	Ured = 400VAC, Unc = 415V, Qn = 800 kVAr, 50x6+100x5
ALFA7S-900-12/415RF	0876576	8426487015368	Ured = 400VAC, Unc = 415V, Qn = 900 kVAr, 75x12
ALFA7S-1000-12/415RF	0876573	8426487015320	Ured = 400VAC, Unc = 415V, Qn = 1000 kVAr, 50x4+100x8
ALFA7S-1200-11/415RF	0876574	8426487015337	Ured = 400VAC, Unc = 415V, Qn = 1200 kVAr, 75x6+150x5

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA RF IP31 with load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 450V

Max THDI: 25% in network

Item	Code	EAN 13	Description
ALFA2-75-3/450RF	0873330	8426487019380	Ured = 400VAC, Unc = 450V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2-87,5-3/450RF	0873331	8426487020126	Ured = 400VAC, Unc = 450V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2-100-4/450RF	0873332	8426487020133	Ured = 400VAC, Unc = 450V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2-112,5-4/450RF	0873333	8426487020140	Ured = 400VAC, Unc = 450V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2-125-4/450RF	0873334	8426487020157	Ured = 400VAC, Unc = 450V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2-137,5-4/450RF	0873335	8426487020164	Ured = 400VAC, Unc = 450V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-125-4/450RF	0873336	8426487020171	Ured = 400VAC, Unc = 450V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3-137,5-4/450RF	0873337	8426487020188	Ured = 400VAC, Unc = 450V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3-150-4/450RF	0873338	8426487020195	Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3-162,5-4/450RF	0873339	8426487020201	Ured = 400VAC, Unc = 450V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3-175-4/450RF	0873340	8426487020218	Ured = 400VAC, Unc = 450V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3-187,5-4/450RF	0873341	8426487020225	Ured = 400VAC, Unc = 450V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3-200-4/450RF	0873342	8426487020232	Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25+50x2+75
ALFA3-225-4/450RF	0873343	8426487020249	Ured = 400VAC, Unc = 450V, Qn = 225 kVAr, 25+50x2+100
ALFA4-200-5/450RF	0873344	8426487020256	Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25x2+50x3
ALFA4-225-6/450RF	0873345	8426487020263	Ured = 400VAC, Unc = 450V, Qn = 225 kVAr, 25x3+50x3
ALFA4-250-6/450RF	0873346	8426487020270	Ured = 400VAC, Unc = 450V, Qn = 250 kVAr, 25x2+50x4
ALFA4-275-5/450RF	0873347	8426487020287	Ured = 400VAC, Unc = 450V, Qn = 275 kVAr, 25+50x3+100
ALFA4-300-6/450RF	0873348	8426487020294	Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5-300-6/450RF	0873349	8426487020300	Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5-325-7/450RF	0873350	8426487020317	Ured = 400VAC, Unc = 450V, Qn = 325 kVAr, 25+50x6
ALFA5-350-8/450RF	0873351	8426487020324	Ured = 400VAC, Unc = 450V, Qn = 350 kVAr, 25x2+50x6
ALFA5-375-9/450RF	0873352	8426487020331	Ured = 400VAC, Unc = 450V, Qn = 375 kVAr, 25x3+50x6
ALFA5-400-7/450RF	0873353	8426487020348	Ured = 400VAC, Unc = 450V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5-450-8/450RF	0873354	8426487020355	Ured = 400VAC, Unc = 450V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5-500-11/450RF	0873355	8426487020362	Ured = 400VAC, Unc = 450V, Qn = 500 kVAr, 25x2+50x9
ALFA5-550-9/450RF	0873356	8426487020379	Ured = 400VAC, Unc = 450V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5-600-10/450RF	0873357	8426487020386	Ured = 400VAC, Unc = 450V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-600-10/450RF	0873358	8426487020393	Ured = 400VAC, Unc = 450V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6-675-9/450RF	0873359	8426487020409	Ured = 400VAC, Unc = 450V, Qn = 675 kVAr, 75x9
ALFA6-750-10/450RF	0873360	8426487020416	Ured = 400VAC, Unc = 450V, Qn = 750 kVAr, 75x10
ALFA7-800-11/450RF	0873361	8426487020423	Ured = 400VAC, Unc = 450V, Qn = 800 kVAr, 50x6+100x5
ALFA7-900-12/450RF	0873362	8426487020430	Ured = 400VAC, Unc = 450V, Qn = 900 kVAr, 75x12
ALFA7-1000-12/450RF	0873363	8426487020447	Ured = 400VAC, Unc = 450V, Qn = 1000 kVAr, 50x4+100x8
ALFA7-1200-11/450RF	0873364	8426487020454	Ured = 400VAC, Unc = 450V, Qn = 1200 kVAr, 75x6+150x5

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA RF IP31 without load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 450V

Max THDI: 25% in network

Item	Code	EAN 13	Description
ALFA2S-75-3/450RF	0873365	8426487020461	Ured = 400VAC, Unc = 450V, Qn = 75 kVAr, 12.5+25+37.5
ALFA2S-87,5-3/450RF	0873366	8426487020478	Ured = 400VAC, Unc = 450V, Qn = 87.5 kVAr, 12.5+25+50
ALFA2S-100-4/450RF	0873367	8426487020485	Ured = 400VAC, Unc = 450V, Qn = 100 kVAr, 12.5+12.5+25+50
ALFA2S-112,5-4/450RF	0873368	8426487020492	Ured = 400VAC, Unc = 450V, Qn = 112.5 kVAr, 12.5+25+25+50
ALFA2S-125-4/450RF	0873369	8426487020508	Ured = 400VAC, Unc = 450V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA2S-137,5-4/450RF	0873370	8426487020515	Ured = 400VAC, Unc = 450V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-125-4/450RF	0873371	8426487020522	Ured = 400VAC, Unc = 450V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA3S-137,5-4/450RF	0873372	8426487020539	Ured = 400VAC, Unc = 450V, Qn = 137.5 kVAr, 12.5+25+50+50
ALFA3S-150-4/450RF	0873373	8426487020546	Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA3S-162,5-4/450RF	0873374	8426487020553	Ured = 400VAC, Unc = 450V, Qn = 162.5 kVAr, 12.5+25+50+75
ALFA3S-175-4/450RF	0873375	8426487020560	Ured = 400VAC, Unc = 450V, Qn = 175 kVAr, 12.5+25+50+87.5
ALFA3S-187,5-4/450RF	0873376	8426487020577	Ured = 400VAC, Unc = 450V, Qn = 187.5 kVAr, 12.5+25+50+100
ALFA3S-200-4/450RF	0873377	8426487020584	Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25+50x2+75
ALFA3S-225-4/450RF	0873378	8426487020591	Ured = 400VAC, Unc = 450V, Qn = 225 kVAr, 25+50x2+100
ALFA4S-200-5/450RF	0873379	8426487020607	Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25x2+50x3
ALFA4S-225-6/450RF	0873380	8426487020614	Ured = 400VAC, Unc = 450V, Qn = 225 kVAr, 25x3+50x3
ALFA4S-250-6/450RF	0873381	8426487020621	Ured = 400VAC, Unc = 450V, Qn = 250 kVAr, 25x2+50x4
ALFA4S-275-5/450RF	0873382	8426487020638	Ured = 400VAC, Unc = 450V, Qn = 275 kVAr, 25+50x3+100
ALFA4S-300-6/450RF	0873383	8426487020645	Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25x2+50x3+100
ALFA5S-300-6/450RF	0873384	8426487020652	Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25x2+50x2+75x2
ALFA5S-325-7/450RF	0873385	8426487430420	Ured = 400VAC, Unc = 450V, Qn = 325 kVAr, 25+50x6
ALFA5S-350-8/450RF	0873386	8426487020676	Ured = 400VAC, Unc = 450V, Qn = 350 kVAr, 25x2+50x6
ALFA5S-375-9/450RF	0873387	8426487020683	Ured = 400VAC, Unc = 450V, Qn = 375 kVAr, 25x3+50x6
ALFA5S-400-7/450RF	0873388	8426487020690	Ured = 400VAC, Unc = 450V, Qn = 400 kVAr, 25x2+50+75x4
ALFA5S-450-8/450RF	0873389	8426487020706	Ured = 400VAC, Unc = 450V, Qn = 450 kVAr, 25x2+50x2+75x4
ALFA5S-500-11/450RF	0873390	8426487020713	Ured = 400VAC, Unc = 450V, Qn = 500 kVAr, 25x2+50x9
ALFA5S-550-9/450RF	0873391	8426487020720	Ured = 400VAC, Unc = 450V, Qn = 550 kVAr, 25x2+50+75x6
ALFA5S-600-10/450RF	0873392	8426487020737	Ured = 400VAC, Unc = 450V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-600-10/450RF	0873393	8426487020744	Ured = 400VAC, Unc = 450V, Qn = 600 kVAr, 25x2+50x2+75x6
ALFA6S-675-9/450RF	0873394	8426487020751	Ured = 400VAC, Unc = 450V, Qn = 675 kVAr, 75x9
ALFA6S-750-10/450RF	0873395	8426487020768	Ured = 400VAC, Unc = 450V, Qn = 750 kVAr, 75x10
ALFA7S-800-11/450RF	0873396	8426487020775	Ured = 400VAC, Unc = 450V, Qn = 800 kVAr, 50x6+100x5
ALFA7S-900-12/450RF	0873397	8426487020782	Ured = 400VAC, Unc = 450V, Qn = 900 kVAr, 75x12
ALFA7S-1000-12/450RF	0873398	8426487020799	Ured = 400VAC, Unc = 450V, Qn = 1000 kVAr, 50x4+100x8
ALFA7S-1200-11/450RF	0873399	8426487020805	Ured = 400VAC, Unc = 450V, Qn = 1200 kVAr, 75x6+150x5

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA ST IP31 with load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 230VAC, 50Hz

Condenser nominal voltage: 230V

Max THDI: 15% in network

Item	Code	EAN 13	Description
ALFA2-30-3/230	0876904	8426487011506	Ured = 230VAC, Unc = 230V, Qn = 30 kVAr, 5+10+15
ALFA2-35-3/230	0876905	8426487011513	Ured = 230VAC, Unc = 230V, Qn = 30 kVAr, 5+10+20
ALFA2-40-4/230	0876906	8426487011520	Ured = 230VAC, Unc = 230V, Qn = 40 kVAr, 5+5+10+20
ALFA2-45-4/230	0876907	8426487011537	Ured = 230VAC, Unc = 230V, Qn = 45 kVAr, 5+10+10+20
ALFA2-50-4/230	0876908	8426487011544	Ured = 230VAC, Unc = 230V, Qn = 50 kVAr, 5+10+15+20
ALFA2-55-4/230	0876909	8426487011551	Ured = 230VAC, Unc = 230V, Qn = 50 kVAr, 5+10+20+20
ALFA3-60-4/230	0876916	8426487011629	Ured = 230VAC, Unc = 230V, Qn = 60 kVAr, 5+10+20+25
ALFA3-65-4/230	0876917	8426487011636	Ured = 230VAC, Unc = 230V, Qn = 65 kVAr, 5+10+20+30
ALFA3-70-4/230	0876918	8426487011643	Ured = 230VAC, Unc = 230V, Qn = 70 kVAr, 5+10+20+35
ALFA3-75-4/230	0876919	8426487011674	Ured = 230VAC, Unc = 230V, Qn = 75 kVAr, 5+10+20+40
ALFA3-80-4/230	0876920	8426487011698	Ured = 230VAC, Unc = 230V, Qn = 80 kVAr, 10+20+20+30
ALFA3-90-4/230	0876921	8426487011704	Ured = 230VAC, Unc = 230V, Qn = 90 kVAr, 10+20+20+40
ALFA4-100-6/230	0876928	8426487011773	Ured = 230VAC, Unc = 230V, Qn = 100 kVAr, 10x2+20x4
ALFA4-110-5/230	0876929	8426487011780	Ured = 230VAC, Unc = 230V, Qn = 110 kVAr, 10+20x3+40
ALFA4-120-6/230	0876930	8426487011797	Ured = 230VAC, Unc = 230V, Qn = 120 kVAr, 10x2+20x3+40
ALFA5-140-8/230	0876934	8426487011834	Ured = 230VAC, Unc = 230V, Qn = 140 kVAr, 10x2+20x6
ALFA5-150-9/230	0876935	8426487011841	Ured = 230VAC, Unc = 230V, Qn = 150 kVAr, 10x3+20x6
ALFA5-160-7/230	0876936	8426487011858	Ured = 230VAC, Unc = 230V, Qn = 160 kVAr, 10x2+20+30x4
ALFA5-180-8/230	0876937	8426487011865	Ured = 230VAC, Unc = 230V, Qn = 180 kVAr, 10x2+20x2+30x4
ALFA5-200-11/230	0876938	8426487011872	Ured = 230VAC, Unc = 230V, Qn = 200 kVAr, 10x2 +20x9
ALFA5-220-9/230	0876939	8426487011889	Ured = 230VAC, Unc = 230V, Qn = 30 kVAr, 5+10+15

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution

ALFA System. List of references.

ALFA ST IP31 without load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 230VAC, 50Hz

Condenser nominal voltage: 230V

Max THDI: 15% in network

Item	Code	EAN 13	Description
ALFA2S-30-3/230	0876910	8426487011568	Ured = 230VAC, Unc = 230V, Qn = 30 kVAr, 5+10+15
ALFA2S-35-3/230	0876911	8426487011575	Ured = 230VAC, Unc = 230V, Qn = 30 kVAr, 5+10+20
ALFA2S-40-4/230	0876912	8426487011582	Ured = 230VAC, Unc = 230V, Qn = 40 kVAr, 5+5+10+20
ALFA2S-45-4/230	0876913	8426487011599	Ured = 230VAC, Unc = 230V, Qn = 45 kVAr, 5+10+10+20
ALFA2S-50-4/230	0876914	8426487011605	Ured = 230VAC, Unc = 230V, Qn = 50 kVAr, 5+10+15+20
ALFA2S-55-4/230	0876915	8426487011612	Ured = 230VAC, Unc = 230V, Qn = 50 kVAr, 5+10+20+20
ALFA3S-60-4/230	0876922	8426487011711	Ured = 230VAC, Unc = 230V, Qn = 60 kVAr, 5+10+20+25
ALFA3S-65-4/230	0876923	8426487011728	Ured = 230VAC, Unc = 230V, Qn = 65 kVAr, 5+10+20+30
ALFA3S-70-4/230	0876924	8426487011735	Ured = 230VAC, Unc = 230V, Qn = 70 kVAr, 5+10+20+35
ALFA3S-75-4/230	0876925	8426487011742	Ured = 230VAC, Unc = 230V, Qn = 75 kVAr, 5+10+20+40
ALFA3S-80-4/230	0876926	8426487011759	Ured = 230VAC, Unc = 230V, Qn = 80 kVAr, 10+20+20+30
ALFA3S-90-4/230	0876927	8426487011766	Ured = 230VAC, Unc = 230V, Qn = 90 kVAr, 10+20+20+40
ALFA4S-100-6/230	0876931	8426487011803	Ured = 230VAC, Unc = 230V, Qn = 100 kVAr, 10x2+20x4
ALFA4S-110-5/230	0876932	8426487011810	Ured = 230VAC, Unc = 230V, Qn = 110 kVAr, 10+20x3+40
ALFA4S-120-6/230	0876933	8426487011827	Ured = 230VAC, Unc = 230V, Qn = 120 kVAr, 10x2+20x3+40
ALFA5S-140-8/230	0876940	8426487011896	Ured = 230VAC, Unc = 230V, Qn = 140 kVAr, 10x2+20x6
ALFA5S-150-9/230	0876941	8426487011902	Ured = 230VAC, Unc = 230V, Qn = 150 kVAr, 10x3+20x6
ALFA5S-160-7/230	0876942	8426487011919	Ured = 230VAC, Unc = 230V, Qn = 160 kVAr, 10x2+20+30x4
ALFA5S-180-8/230	0876943	8426487011926	Ured = 230VAC, Unc = 230V, Qn = 180 kVAr, 10x2+20x2+30x4
ALFA5S-200-11/230	0876944	8426487011933	Ured = 230VAC, Unc = 230V, Qn = 200 kVAr, 10x2 +20x9
ALFA5S-220-9/230	0876945	8426487011940	Ured = 230VAC, Unc = 230V, Qn = 220 kVAr, 10x2+20+30x6

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution.

ALFA System. List of references.

ALFA ST IP31 with load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 450V

Anti-harmonic reactances tuned at 189 Hz

Item	Code	EAN 13	Description
ALFA2L-30-2/450	0873095	8426487016723	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 30 kVAr, 10+20
ALFA2L-37,5-2/450	0873096	8426487016730	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 37.5 kVAr, 12.5+25
ALFA2L-40-3/450	0873097	8426487016747	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 40 kVAr, 10+10+20
ALFA3L-50-3/450	0873101	8426487016785	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 50 kVAr, 10+20+20
ALFA3L-60-3/450	0873102	8426487016792	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 60 kVAr, 10+20+30
ALFA3L-70-4/450	0873103	8426487016808	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 70 kVAr, 10+10+20+30
ALFA3L-75-3/450	0873104	8426487016815	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 75 kVAr, 12.5+25+37.5
ALFA4L-80-4/450	0873111	8426487016884	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 80 kVAr, 10+20+20+30
ALFA4L-90-4/450	0873112	8426487016891	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 90 kVAr, 10+20+30+30
ALFA4L-100-4/450	0873109	8426487016860	Resonance frequency 189 Hz, Ured = 400VAC, Unc=450V, Qn=100 kVAr, 12.5+25+25+37.5
ALFA4L-112,5-4/450	0873110	8426487016877	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 112.5 kVAr, 12.5+25+37.5+37.5
ALFA5L-125-4/450	0873117	8426487016945	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA5L-150-4/450	0873118	8426487016952	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 25+25+50+50
ALFA5L-150b-4/450	0873119	8426487016969	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA5L-200-5/450	0873120	8426487016976	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25x2+50x3
ALFA5L-250-5/450	0873121	8426487016983	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 250 kVAr, 25+37.5+62.5x3
ALFA6L-300-6/450	0873127	8426487017041	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25+37.5+50+62.5x3
ALFA7L-350-7/450	0873129	8426487017065	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 350 kVAr, 50x7
ALFA7L-400-8/450	0873130	8426487017072	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 400 kVAr, 50x8
ALFA7L-500-8/450	0873131	8426487017089	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 500 kVAr, 62.5x8
ALFA8L-562,5-9/450	0873135	8426487017126	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 562.5 kVAr, 62.5x9
ALFA8L-625-10/450	0873136	8426487017133	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 625 kVAr, 62.5x10

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution

Please check for versions with reactances tuned at other frequencies.

ALFA System. List of references.

ALFA ST IP31 without load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 450V

Anti-harmonic reactances tuned at 189 Hz

Item	Code	EAN 13	Description
ALFA2LS-30-2/450	0873098	8426487016754	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 30 kVAr, 10+20
ALFA2LS-37,5-2/450	0873099	8426487016761	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 37.5 kVAr, 12.5+25
ALFA2LS-40-3/450	0873100	8426487016778	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 40 kVAr, 10+10+20
ALFA3LS-50-3/450	0873105	8426487016822	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 50 kVAr, 10+20+20
ALFA3LS-60-3/450	0873106	8426487016839	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 60 kVAr, 10+20+30
ALFA3LS-70-4/450	0873107	8426487016846	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 70 kVAr, 10+10+20+30
ALFA3LS-75-3/450	0873108	8426487016853	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 75 kVAr, 12.5+25+37.5
ALFA4LS-80-4/450	0873115	8426487016921	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 80 kVAr, 10+20+20+30
ALFA4LS-90-4/450	0873116	8426487016938	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 90 kVAr, 10+20+30+30
ALFA4LS-100-4/450	0873113	8426487016907	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 100 kVAr, 12.5+25+25+37.5
ALFA4LS-112,5-4/450	0873114	8426487016914	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 112.5 kVAr, 12.5+25+37.5+37.5
ALFA5LS-125-4/450	0873122	8426487016990	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 125 kVAr, 12.5+25+37.5+50
ALFA5LS-150-4/450	0873123	8426487017003	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 25+25+50+50
ALFA5LS-150b-4/450	0873124	8426487017010	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 12.5+25+50+62.5
ALFA5LS-200-5/450	0873125	8426487017027	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25x2+50x3
ALFA5LS-250-5/450	0873126	8426487017034	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 250 kVAr, 25+37.5+62.5x3
ALFA6LS-300-6/450	0873128	8426487017058	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25+37.5+50+62.5x3
ALFA7LS-350-7/450	0873132	8426487017096	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 350 kVAr, 50x7
ALFA7LS-400-8/450	0873133	8426487017102	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 400 kVAr, 50x8
ALFA7LS-500-8/450	0873134	8426487017119	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 500 kVAr, 62.5x8
ALFA8LS-562,5-9/450	0873137	8426487017140	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 562.5 kVAr, 62.5x9
ALFA8LS-625-10/450	0873138	8426487017157	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 625 kVAr, 62.5x10

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution

Please check for versions with reactances tuned at other frequencies

ALFA System. List of references.

ALFA L RF IP31 with load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 450V

Anti-harmonic reactances tuned at 189 Hz

Item	Code	EAN 13	Description
ALFA2L-30-2/450RF	0873183	8426487017607	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 30 kVAr, 10+20
ALFA2L-37,5-2/450RF	0873184	8426487017614	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 37.5 kVAr, 12.5+25
ALFA2L-40-3/450RF	0873185	8426487017621	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 40 kVAr, 10+10+20
ALFA2L-50-3/450RF	0873186	8426487017638	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 50 kVAr, 12.5+12.5+25
ALFA3L-50-3/450RF	0873192	8426487017690	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 50 kVAr, 10+20+20
ALFA3L-60-3/450RF	0873193	8426487017706	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 60 kVAr, 10+20+30
ALFA3L-70-4/450RF	0873194	8426487017713	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 70 kVAr, 10+10+20+30
ALFA3L-75-3/450RF	0873195	8426487017720	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 75 kVAr, 12.5+25+37.5
ALFA3L-90-4/450RF	0873196	8426487017737	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 90 kVAr, 10+10+20+50
ALFA3L-100-4/450RF	0873191	8426487017683	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 100 kVAr, 10+20+20+50
ALFA4L-100-4/450RF	0873203	8426487017805	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 100 kVAr, 10+20+20+50
ALFA4L-110-4/450RF	0873204	8426487017812	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 110 kVAr, 10+20+30+50
ALFA4L-120-5/450RF	0873205	8426487017829	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 120 kVAr, 10+10+20+30+50
ALFA4L-130-5/450RF	0873206	8426487017836	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 130 kVAr, 10+20+20+30+50
ALFA4L-140-5/450RF	0873207	8426487017843	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 140 kVAr, 10+10+20+50+50
ALFA4L-150-5/450RF	0873208	8426487017850	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 10+20+20+50+50
ALFA5L-150-4/450RF	0873215	8426487017928	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 25+25+50+50
ALFA5L-200-5/450RF	0873216	8426487017935	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25+25+50+50+50
ALFA5L-250-5/450RF	0873217	8426487017942	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25+37.5+62.5x3
ALFA6L-300-6/450RF	0873221	8426487017980	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25+37.5+50+62.5x3
ALFA7L-350-7/450RF	0873223	8426487018000	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 350 kVAr, 50x7
ALFA7L-400-8/450RF	0873224	8426487018017	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 400 kVAr, 50x8
ALFA7L-500-8/450RF	0873225	8426487018024	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 500 kVAr, 62.5x8
ALFA8L-562,5-9/450RF	0873229	8426487018062	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 562.5 kVAr, 62.5x9
ALFA8L-625-10/450RF	0873230	8426487018079	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 625 kVAr, 62.5x10

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or distribution of scales

Please check for versions with reactances tuned at other frequencies

ALFA System. List of references.

ALFA L RF IP31 without load breaker switch, reinforced metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 450V

Anti-harmonic reactances tuned at 189 Hz

Item	Code	EAN 13	Description
ALFA2LS-30-2/450RF	0873187	8426487017645	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 30 kVAr, 10+20
ALFA2LS-37,5-2/450RF	0873188	8426487017652	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 37.5 kVAr, 12.5+25
ALFA2LS-40-3/450RF	0873189	8426487017669	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 40 kVAr, 10+10+20
ALFA2LS-50-3/450RF	0873190	8426487017676	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 50 kVAr, 12.5+12.5+25
ALFA3LS-50-3/450RF	0873198	8426487017751	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 50 kVAr, 10+20+20
ALFA3LS-60-3/450RF	0873199	8426487017768	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 60 kVAr, 10+20+30
ALFA3LS-70-4/450RF	0873200	8426487017775	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 70 kVAr, 10+10+20+30
ALFA3LS-75-3/450RF	0873201	8426487017782	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 75 kVAr, 12.5+25+37.5
ALFA3LS-90-4/450RF	0873202	8426487017799	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 90 kVAr, 10+10+20+50
ALFA3LS-100-4/450RF	0873197	8426487017744	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 100 kVAr, 10+20+20+50
ALFA4LS-100-4/450RF	0873209	8426487017867	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 100 kVAr, 10+20+20+50
ALFA4LS-110-4/450RF	0873210	8426487017874	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 110 kVAr, 10+20+30+50
ALFA4LS-120-5/450RF	0873211	8426487017881	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 120 kVAr, 10+10+20+30+50
ALFA4LS-130-5/450RF	0873212	8426487017898	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 130 kVAr, 10+20+20+30+50
ALFA4LS-140-5/450RF	0873213	8426487017904	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 140 kVAr, 10+10+20+50+50
ALFA4LS-150-5/450RF	0873214	8426487017911	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 10+20+20+50+50
ALFA5LS-150-4/450RF	0873218	8426487017959	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 150 kVAr, 25+25+50+50
ALFA5LS-200-5/450RF	0873219	8426487017966	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25+25+50+50+50
ALFA5LS-250-5/450RF	0873220	8426487017973	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 200 kVAr, 25+37.5+62.5x3
ALFA6LS-300-6/450RF	0873222	8426487017997	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 300 kVAr, 25+37.5+50+62.5x3
ALFA7LS-350-7/450RF	0873226	8426487018031	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 350 kVAr, 50x7
ALFA7LS-400-8/450RF	0873227	8426487018048	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 400 kVAr, 50x8
ALFA7LS-500-8/450RF	0873228	8426487018055	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 500 kVAr, 62.5x8
ALFA8LS-562,5-9/450RF	0873231	8426487018086	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 562.5 kVAr, 62.5x9
ALFA8LS-625-10/450RF	0873232	8426487018093	Resonance frequency 189 Hz, Ured = 400VAC, Unc = 450V, Qn = 625 kVAr, 62.5x10

Note: Versions IP54 add "IP54" at the end of the reference.

Check price.

Please check for versions with other powers or scale distribution

Please check for versions with reactances tuned at other frequencies

Systems for fixed reactive energy compensation .



BLOCK system.

The BLOCK system is supplied in kits for modular installation, making its use very simple. They are supplied with the following:

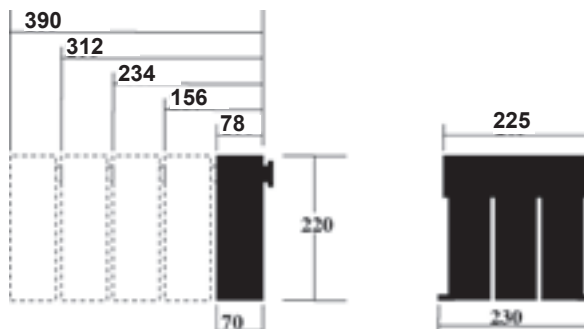
- Set of three-phase condensers, in a plastic container with a lid, ready for simple installation and connection.
- Bags with connection bars, bolts and screws.

Two types of condensers can be supplied:

- The standard ST, with condenser nominal voltage of 400V and 440.
- The reinforced RF, with condenser nominal voltage of 415V and 450V. These units are used in hard environmental conditions or for a longer useful life.

BLOCK n.	Nominal Powe kVAr	Measurements mm	ST	RF
1	5	251x220x78	●	
1	10	251x220x78 213x230x79	●	●
1	12,5	251x220x78	●	
2x10 1	20	2x251x220x78 213x230x79	●	●
2x12,5	25	2x251x220x78	●	
3x10	30	3x251x220x78 3x213x230x79	●	●
3x12,5	37,5	3x251x220x78	●	
2x20	40	2x213x230x79		●
4x12,5	50	4x251x220x78	●	

BLOCK, dimensions.



Item	Code	EAN 13	Description
BLOCK-5KVAR-230V	0876887	8426487011315	Ured=230VAC, Unc=230V, Max.THDI=15%, 251x220x78
BLOCK-5KVAR-400V	0876888	8426487011322	Ured=400VAC, Unc=400V, Max.THDI=5%, 251x220x78
BLOCK-10KVAR-400V	0876889	8426487011339	Ured=400VAC, Unc=400V, Max.THDI=5%, 251x220x79
BLOCK-12,5KVAR-400V	0876890	8426487011346	Ured=400VAC, Unc=400V, Max.THDI=5%, 251x220x80
BLOCK-5KVAR-440V	0876618	8426487427574	Ured=400VAC, Unc=440V, Max.THDI=10%, 251x220x81
BLOCK-10KVAR-440V	0876891	8426487011353	Ured=400VAC, Unc=440V, Max.THDI=10%, 251x220x82
BLOCK-12,5KVAR-440V	0876892	8426487011360	Ured=400VAC, Unc=440V, Max.THDI=10%, 251x220x83
BLOCK-RF-10KVAR-415V	0876893	8426487011377	Ured=400VAC, Unc=415V, Max.THDI=20%, 213x230x79
BLOCK-RF-20KVAR-415V	0876894	8426487011384	Ured=400VAC, Unc=415V, Max.THDI=20%, 213x230x80
BLOCK-RF-10KVAR-450V	0876895	8426487011391	Ured=400VAC, Unc=450V, Max.THDI=25%, 213x230x79
BLOCK-RF-20KVAR-450V	0876896	8426487011407	Ured=400VAC, Unc=450V, Max.THDI=25%, 213x230x80



RVB, High power condensers

The RVB condensers are power factor correction fixed equipment. They are single-phase condensers mounted in a metal cabinet, ready to be installed.

The RVB equipment is available in two versions, 5 different nominal condenser voltages, and 2 types of condenser:

- ST Series – single-phase condensers with PPM dielectric (Metalised polypropylene)
- RF Series – single-phase condensers with reinforced PPM dielectric (Reinforced metalised polypropylene). This condenser is recommended for a long useful life or to be used in hard environmental conditions.

Nominal power kVAr	Measurements mm	ST 230V	ST 415V	ST 440V	RF 415V	RF 450V
30	440x420x210	●				
40	440x420x210	●				
50	440x420x210		●	●	●	●
60	440x420x210				●	●
62,5	440x420x210		●	●		
75	440x420x210		●	●		
80	440x420x210				●	●
100	440x420x210		●	●	●	●

This equipment is a cabinet made up by:

- Structure of a metal plate with inside of zinc, to house the condensers.
- Outside lid painted in R7032 with top entry for cables.
- Anchoring supports for wall-mounting.
- Single-phase condensers with triangle connection.

The unit is supplied perfectly packaged in cardboard, and includes all the necessary screws, installation and service manual, etc.

Item	Code	EAN 13	Description
RVB-30KVAR-230V	0876870	8426487011131	Ured=230VAC, Unc=230V, Max.THDI=15%, 440x420x210
RVB-40KVAR-230V	0876871	8426487011148	Ured=230VAC, Unc=230V, Max.THDI=15%, 440x420x211
RVB-50KVAR-400V	0876872	8426487011162	Ured=400VAC, Unc=415V, Max.THDI=7%, 440x420x212
RVB-62,5KVAR-400V	0876873	8426487011179	Ured=400VAC, Unc=415V, Max.THDI=7%, 440x420x213
RVB-75KVAR-400V	0876874	8426487011186	Ured=400VAC, Unc=415V, Max.THDI=7%, 440x420x214
RVB-100KVAR-400V	0876875	8426487011193	Ured=400VAC, Unc=415V, Max.THDI=7%, 440x420x215
RVB-50KVAR-440V	0876709	8426487009404	Ured=400VAC, Unc=440V, Max.THDI=10%, 440x420x216
RVB-62,5KVAR-440V	0876876	8426487011209	Ured=400VAC, Unc=440V, Max.THDI=10%, 440x420x217
RVB-75KVAR-440V	0876877	8426487011216	Ured=400VAC, Unc=440V, Max.THDI=10%, 440x420x218
RVB-100KVAR-440V	0876878	8426487011223	Ured=400VAC, Unc=440V, Max.THDI=10%, 440x420x219
RVB-RF-50KVAR-415V	0876879	8426487011230	Ured=400VAC, Unc=415V, Max.THDI=20%, 440x420x215
RVB-RF-62,5KVAR-415V	0876880	8426487011247	Ured=400VAC, Unc=415V, Max.THDI=20%, 440x420x216
RVB-RF-75KVAR-415V	0876881	8426487011254	Ured=400VAC, Unc=415V, Max.THDI=20%, 440x420x217
RVB-RF-100KVAR-415V	0876882	8426487011261	Ured=400VAC, Unc=415V, Max.THDI=20%, 440x420x218
RVB-RF-50KVAR-450V	0876883	8426487011278	Ured=400VAC, Unc=450V, Max.THDI=25%, 440x420x219
RVB-RF-62,5KVAR-450V	0876884	8426487011285	Ured=400VAC, Unc=450V, Max.THDI=25%, 440x420x220
RVB-RF-75KVAR-450V	0876885	8426487011292	Ured=400VAC, Unc=450V, Max.THDI=25%, 440x420x221
RVB-RF-100KVAR-450V	0876886	8426487011308	Ured=400VAC, Unc=450V, Max.THDI=25%, 440x420x222



RVT System.

The RVT system is a power factor compensation fixed system, mainly used to compensate constant loads as well as transformers.

It includes the following components:

A complete cabinet with the following characteristics and devices:

- Galvanised metal plate, to house the condensers.
- Outside lid painted in R7032 with top input for cables.
- Anchoring supports for wall assembly.
- Load switch on door (optional).
- Three-polar fuses NH-00 for battery protection.
- Outside lights indicating fuse operation.
- Single-phase condensers with triangle connection

The unit is supplied perfectly packed in cardboard, including all the necessary screws, installation and service manual, etc.

Type of condenser	Nominal power	Protection level	Measurements
	kVAr	IP	mm
ST	12,5 ÷ 75	31	440x420x210
		54	700x500x250
RF	10 ÷ 80	31	440x420x210
		54	700x500x250

RVT options available.

Model	Supply voltage	Control voltage	Type of condenser	Nominal voltage of the condenser	Max. condenser Overload	Max THDI of the condenser	Life expectancy	Nominal powers
	V	V		V	In	%	horas	kVAr
ST	230	230V	Single-phase condensers	230	1,3	50	30.000	10 – 15 – 20 25 – 30
	400	400		440	1,3	40	30.000	12,5 – 20 – 25 – 30 37,5 – 50 – 62,5 – 75
RF	400	400		450	4	70	120.000	10 – 20 – 30 – 40 50 – 60 – 80

ALFA ST IP31 without load breaker switch, metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 440V

Item	Code	EAN 13	Description
RVT-10KVAR	0876265	8426487426737	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 440x420x210mm
RVT-12,5KVAR	0876851	8426487010936	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 440x420x210mm
RVT-15KVAR	0876266	8426487427147	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 440x420x210mm
RVT-20KVAR	0876267	8426487427154	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 440x420x210mm
RVT-25KVAR	0876852	8426487010943	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 440x420x210mm
RVT-30KVAR	0876268	8426487427161	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 440x420x210mm
RVT-37,5KVAR	0876616	8426487427413	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 80A, 440x420x210mm
RVT-40KVAR	0876269	8426487427178	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 80A, 440x420x210mm
RVT-50KVAR	0876270	8426487427185	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 125A, 440x420x210mm
RVT-62,5KVAR	0876271	8426487427192	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 200A, 440x420x210mm
RVT-75KVAR	0876853	8426487010950	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 200A, 440x420x210mm

RVT RF IP31 with load breaker switch, reinforced metalised polypropylene condensers.
Power supply: 400VAC, 50Hz
Condenser nominal voltage: 450V

Item	Code	EAN 13	Description
RVT-RF-10KVAR	0876854	8426487010967	Ured=400VAC, Unc=450V, Max. THDI= 20%, Breaker switch 63A, 440x420x210mm
RVT-RF-20KVAR	0876855	8426487010974	Ured=400VAC, Unc=450V, Max. THDI= 20%, Breaker switch 63A, 440x420x210mm
RVT-RF-30KVAR	0876856	8426487010981	Ured=400VAC, Unc=450V, Max. THDI= 20%, Breaker switch 63A, 440x420x210mm
RVT-RF-40KVAR	0876857	8426487010998	Ured=400VAC, Unc=450V, Max. THDI= 20%, Breaker switch 80A, 440x420x210mm
RVT-RF-50KVAR	0876787	8426487010219	Ured=400VAC, Unc=450V, Max. THDI= 20%, Breaker switch 125A, 440x420x210mm
RVT-RF-60KVAR	0876788	8426487010226	Ured=400VAC, Unc=450V, Max. THDI= 20%, Breaker switch 200A, 440x420x210mm
RVT-RF-80KVAR	0876789	8426487010233	Ured=400VAC, Unc=450V, Max. THDI= 20%, Breaker switch 200A, 440x420x210mm

Note: Versions IP54 add "IP54" at the end of the reference.
Check price.

ALFA ST IP31 without load breaker switch, metalised polypropylene condensers.
Power supply: 400VAC, 50Hz
Condenser nominal voltage: 440V

Item	Code	EAN 13	Description
RVT-10KVAR/S	0876867	8426487011094	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-12,5KVAR/S	0876790	8426487010240	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-15KVAR/S	0876869	8426487011124	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-20KVAR/S	0876791	8426487010257	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-25KVAR/S	0876792	8426487010264	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-30KVAR/S	0876793	8426487010271	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-37,5KVAR/S	0876794	8426487010295	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-40KVAR/S	0876868	8426487011117	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-50KVAR/S	0876795	8426487010301	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-62,5KVAR/S	0876796	8426487010318	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm
RVT-75KVAR/S	0876797	8426487010325	Ured=400VAC, Unc=440V, Max. THDI= 10%, 440x420x210mm

RVT RF IP31 without load breaker switch, reinforced metalised polypropylene condensers.
Power supply: 400VAC, 50Hz
Condenser nominal voltage: 450V

Item	Code	EAN 13	Description
RVT-RF-10KVAR/S	0876798	8426487010332	Ured=400VAC, Unc=450V, Max. THDI= 20%, 440x420x210mm
RVT-RF-20KVAR/S	0876799	8426487010349	Ured=400VAC, Unc=450V, Max. THDI= 20%, 440x420x210mm
RVT-RF-30KVAR/S	0876800	8426487010356	Ured=400VAC, Unc=450V, Max. THDI= 20%, 440x420x210mm
RVT-RF-40KVAR/S	0876801	8426487010363	Ured=400VAC, Unc=450V, Max. THDI= 20%, 440x420x210mm
RVT-RF-50KVAR/S	0876802	8426487010370	Ured=400VAC, Unc=450V, Max. THDI= 20%, 440x420x210mm
RVT-RF-60KVAR/S	0876803	8426487010387	Ured=400VAC, Unc=450V, Max. THDI= 20%, 440x420x210mm
RVT-RF-80KVAR/S	0876804	8426487010394	Ured=400VAC, Unc=450V, Max. THDI= 20%, 440x420x210mm

Note: Versions IP54 add "IP54" at the end of the reference.
Please check versions at 230 VAC. Check price.

Fixed/semiautomatic compensation system.**RM semiautomatic system.**

The RM series can be supplied with ST standard or reinforced RF condensers, in 3 versions, in compliance with the internal electric composition:

- a) RMA version, with automatic switch only
- b) RMB version, with automatic switch and contactor
- c) RMC version, with automatic switch, contactor and timer, to avoid reconnection of loaded condensers.

The equipment is made up of the following:

- Components and electric connections
- RAL7032 metal plate cover.
- Cover with screws
- Automatic switch
- Contactor, for version B
- Timer, for version C to avoid reconnection.
- Three-phase condensers
- Anchoring supports for wall installation, supplied previous order.

The unit is supplied perfectly packed in cardboard, and includes all the necessary screws, installation and service manual, etc.

RM ST, metalised polypropylene condensers.

Power supply: 400VAC, 50Hz

Condenser nominal voltage: 440V

Item	Code	EAN 13	Description
RMA-12,5KVAR	0876654	8426487008643	Ured=400VAC, Unc=440V, Max. THDI= 10%, magnetothermal 63A, 230x220x230
RMA-20KVAR	0876655	8426487008650	Ured=400VAC, Unc=440V, Max. THDI= 10%, magnetothermal 63A, 230x220x231
RMA-25KVAR	0876656	8426487008667	Ured=400VAC, Unc=440V, Max. THDI= 10%, magnetothermal 63A, 230x220x232
RMA-30KVAR	0876657	8426487008773	Ured=400VAC, Unc=440V, Max. THDI= 10%, magnetothermal 63A, 230x220x233
RMA-37,5KVAR	0876658	8426487008780	Ured=400VAC, Unc=440V, Max. THDI= 10%, magnetothermal 125A, 230x220x234
RMA-50KVAR	0876659	8426487008803	Ured=400VAC, Unc=440V, Max. THDI= 10%, magnetothermal 125A, 230x220x235
RMB-12,5KVAR	0876660	8426487008841	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, magnetothermal 63A, 230x220x230
RMB-20KVAR	0876661	8426487008858	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, magnetothermal 63A, 230x220x231
RMB-25KVAR	0876662	8426487008865	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, magnetothermal 63A, 230x220x232
RMB-30KVAR	0876663	8426487008872	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, magnetothermal 63A, 230x220x233
RMB-37,5KVAR	0876664	8426487008889	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, magnetothermal 125A, 230x220x234
RMB-50KVAR	0876665	8426487008896	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, magnetothermal 125A, 230x220x235
RMC-12,5KVAR	0876666	8426487008902	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, timer, magnet. 63A, 230x220x230
RMC-20KVAR	0876667	8426487008919	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, timer, magnet. 63A, 230x220x231
RMC-25KVAR	0876668	8426487008926	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, timer, magnet. 63A, 230x220x232
RMC-30KVAR	0876669	8426487008933	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, timer, magnet. 63A, 230x220x233
RMC-37,5KVAR	0876670	8426487008940	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, timer, magnet 125A, 230x220x234
RMC-50KVAR	0876671	8426487008957	Ured=400VAC, Unc=440V, Max. THDI= 10%, contactor, timer, magnet 125A, 230x220x235

RM RF, reinforced metalised polypropylene condensers.
Power supply: 400VAC, 50Hz
Condenser nominal voltage: 450V

Item	Code	EAN 13	Description
RMA-RF-10KVAR	0876672	8426487008964	Ured=400VAC, Unc=450V, Max. THDI= 25%, magnetothermal 63A, 230x220x230
RMA-RF-20KVAR	0876673	8426487008971	Ured=400VAC, Unc=450V, Max. THDI= 25%, magnetothermal 63A, 230x220x231
RMA-RF-30KVAR	0876674	8426487008988	Ured=400VAC, Unc=450V, Max. THDI= 25%, magnetothermal 63A, 230x220x232
RMA-RF-40KVAR	0876675	8426487008995	Ured=400VAC, Unc=450V, Max. THDI= 25%, magnetothermal 63A, 230x220x233
RMA-RF-50KVAR	0876676	8426487009008	Ured=400VAC, Unc=450V, Max. THDI= 25%, magnetothermal 125A, 230x220x234
RMB-RF-10KVAR	0876677	8426487009015	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, magnetothermal 63A, 230x220x230
RMB-RF-20KVAR	0876678	8426487009022	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, magnetothermal 63A, 230x220x231
RMB-RF-30KVAR	0876679	8426487009039	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, magnetothermal 63A, 230x220x232
RMB-RF-40KVAR	0876680	8426487009046	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, magnetothermal 63A, 230x220x233
RMB-RF-50KVAR	0876681	8426487009053	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, magnetothermal 125A, 230x220x234
RMC-RF-10KVAR	0876682	8426487009060	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, timer, magnet. 63A, 230x220x231
RMC-RF-20KVAR	0876683	8426487009077	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, timer, magnet. 63A, 230x220x232
RMC-RF-30KVAR	0876684	8426487009084	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, timer, magnet. 63A, 230x220x233
RMC-RF-40KVAR	0876685	8426487009091	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, timer, magnet. 63A, 230x220x234
RMC-RF-50KVAR	0876686	8426487009107	Ured=400VAC, Unc=450V, Max. THDI= 25%, contactor, timer, magn. 125A, 230x220x235

RM ST metalised polypropylene condensers.
Power supply: 230VAC, 50Hz
Condenser nominal voltage: 230V

Item	Code	EAN 13	Description
RMA-5KVAR-230V	0876639	8426487008476	Ured=230VAC, Unc=230V, Max. THDI= 15%, magnetothermal 63A, 230x220x230
RMA-10KVAR-230V	0876640	8426487008483	Ured=230VAC, Unc=230V, Max. THDI= 15%, magnetothermal 63A, 230x220x300
RMA-15KVAR-230V	0876641	8426487008490	Ured=230VAC, Unc=230V, Max. THDI= 15%, magnetothermal 63A, 230x220x370
RMA-20KVAR-230V	0876642	8426487008506	Ured=230VAC, Unc=230V, Max. THDI= 15%, magnetothermal 125A, 230x220x440
RMA-25KVAR-230V	0876643	8426487008513	Ured=230VAC, Unc=230V, Max. THDI= 15%, magnetothermal 125A, 230x220x441
RMB-5KVAR-230V	0876644	8426487008520	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, magnetothermal 63A, 230x220x230
RMA-10KVAR-230V	0876645	8426487008537	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, magnetothermal 63A, 230x220x231
RMB-15KVAR-230V	0876646	8426487008544	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, magnetothermal 63A, 230x220x232
RMB-20KVAR-230V	0876647	8426487008551	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, magnetothermal 125A, 230x220x233
RMB-25KVAR-230V	0876648	8426487008575	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, magnetothermal 125A, 230x220x234
RMC-5KVAR-230V	0876649	8426487008599	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, timer, magnet. 63A, 230x220x230
RMC-10KVAR-230V	0876650	8426487008605	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, timer, magnet. 63A, 230x220x231
RMC-15KVAR-230V	0876651	8426487008612	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, timer, magnet. 63A, 230x220x232
RMC-20KVAR-230V	0876652	8426487008629	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, timer, magnet 125A, 230x220x233
RMC-25KVAR-230V	0876653	8426487008636	Ured=230VAC, Unc=230V, Max. THDI= 15%, contactor, timer, magnet 125A, 230x220x234



RVM semi-automatic system.

La serie RVM está disponible con condensadores estandar ST o reforzados RF, en 2 versiones, de acuerdo con el grado de protección: IP31 y IP54

El equipamiento se compone de:

- Envoltente metálica para montaje en Wall,
- Seccionador de corte y fusibles NH-00 tripolares
- Contactor,
- Temporizador, opcional
- Indicadores luminosos para fusibles y para tensión
- ST o RF (mayor vida útil) condensadores monofásicos con conexión en triángulo

La unidad se suministra perfectamente embalada en cartón, e incluye toda la tortillería necesaria, manual de instalación y servicio, etc.

options available RVM.

Two types of condensers available:

- ST Series – single-phase condensers with metalised polypropylene dielectric
- RF Series – single-phase condensers with reinforced metalised polypropylene dielectric. This condenser is recommended for a long useful life or to be used in very demanding conditions (high temperatures, high harmonic content)

Nominal power kVAr	Type of condenser	IP31 Measurements WxHxD mm	IP54 Measurements HxWxD mm	ST	RF	230V	400V
10	Single-phase	440x420x210	700x500x250		●		●
12,5	Single-phase	440x420x210	700x500x250	●			●
20	Single-phase	440x420x210	700x500x250	●	●		●
25	Single-phase	440x420x210	700x500x250	●			●
30	Single-phase	440x420x210	700x500x250	●	●	●	●
37,5	Single-phase	440x420x210	700x500x250	●			●
40	Single-phase	440x420x210	700x500x250		●		●
50	Single-phase	440x420x210	700x500x250	●	●		●
60	Single-phase	440x420x210	700x500x250		●		●
62,5	Single-phase	440x420x210	700x500x250	●			●
75	Single-phase	440x420x210	700x500x250	●			●
80	Single-phase	440x420x210	700x500x250		●		●
100	Single-phase	440x420x210	700x500x250		●		●

Other powers are available upon request, please consult with our technical department.

Item	Code	EAN 13	Description
RVM-12,5KVAR	0876727	8426487009602	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 40A, 420x440x210, IP31
RVM-20KVAR	0876728	8426487009619	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 420x440x210, IP31
RVM-25KVAR	0876729	8426487009626	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 63A, 420x440x210, IP31
RVM-30KVAR	0876730	8426487009633	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 80A, 420x440x210, IP31
RVM-37,5KVAR	0876731	8426487009640	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 80A, 420x440x210, IP31
RVM-50KVAR	0876732	8426487009657	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 125A, 420x440x210, IP31
RVM-62,5KVAR	0876733	8426487009664	Ured=400VAC, Unc=440V, Max. THDI= 10%, Breaker switch 200A, 420x440x210, IP31
RVM-12,5KVAR/T	0876734	8426487009671	Ured=400VAC, Unc=440V, Max. THDI= 10%, temporizador, inter. corte 40A, 420x440x210, IP31
RVM-20KVAR/T	0876735	8426487009688	Ured=400VAC, Unc=440V, Max. THDI= 10%, temporizador, inter. corte 63A, 420x440x210, IP31
RVM-25KVAR/T	0876736	8426487009695	Ured=400VAC, Unc=440V, Max. THDI= 10%, temporizador, inter. corte 63A, 420x440x210, IP31
RVM-30KVAR/T	0876737	8426487009701	Ured=400VAC, Unc=440V, Max. THDI= 10%, temporizador, inter. corte 80A, 420x440x210, IP31
RVM-37,5KVAR/T	0876738	8426487009718	Ured=400VAC, Unc=440V, Max. THDI= 10%, temporizador, inter. corte 80A, 420x440x210, IP31
RVM-50KVAR/T	0876739	8426487009725	Ured=400VAC, Unc=440V, Max. THDI= 10%, temporizador, inter. corte 125A, 420x440x210, IP31
RVM-62,5KVAR/T	0876740	8426487009732	Ured=400VAC, Unc=440V, Max. THDI= 10%, temporizador, inter. corte 200A, 420x440x210, IP31

Item	Code	EAN 13	Description
RVM-10KVAR-230V	0876711	8426487009435	Ured=230VAC, Unc=230V, Max. THDI= 15%, Breaker switch 63A, 420x440x210, IP31
RVM-15KVAR-230V	0876712	8426487009442	Ured=230VAC, Unc=230V, Max. THDI= 15%, Breaker switch 63A, 420x440x210, IP31
RVM-20KVAR-230V	0876713	8426487009459	Ured=230VAC, Unc=230V, Max. THDI= 15%, Breaker switch 125A, 420x440x210, IP31
RVM-25KVAR-230V	0876714	8426487009466	Ured=230VAC, Unc=230V, Max. THDI= 15%, Breaker switch 125A, 420x440x210, IP31
RVM-10KVAR-230V/T	0876715	8426487009473	Ured=230VAC, Unc=230V, Max. THDI= 15%, temporizador, inter. corte 63A, 420x440x210, IP31
RVM-15KVAR-230V/T	0876716	8426487009480	Ured=230VAC, Unc=230V, Max. THDI= 15%, temporizador, inter. corte 63A, 420x440x210, IP31
RVM-20KVAR-230V/T	0876717	8426487009497	Ured=230VAC, Unc=230V, Max. THDI= 15%, temporizador, inter. corte 125A, 420x440x210, IP31
RVM-25KVAR-230V/T	0876718	8426487009503	Ured=230VAC, Unc=230V, Max. THDI= 15%, temporizador, inter. corte 125A, 420x440x210, IP31

Note: Versions IP54 add "IP54" at the end of the reference.

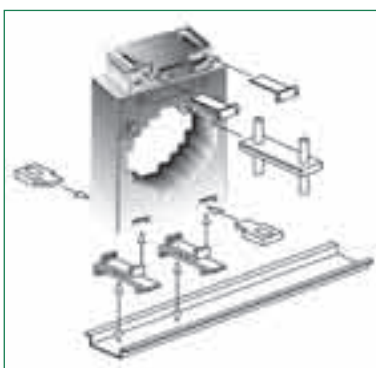
Item	Code	EAN 13	Description
RVM-RF-10KVAR	0876755	8426487009886	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 40A, 420x440x210, IP31
RVM-RF-20KVAR	0876756	8426487009893	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 63A, 420x440x210, IP31
RVM-RF-30KVAR	0876757	8426487009909	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 63A, 420x440x210, IP31
RVM-RF-40KVAR	0876758	8426487009916	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 80A, 420x440x210, IP31
RVM-RF-50KVAR	0876759	8426487009923	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 80A, 420x440x210, IP31
RVM-RF-60KVAR	0876760	8426487009930	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 125A, 420x440x210, IP31
RVM-RF-80KVAR	0876761	8426487009947	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 200A, 420x440x210, IP31
RVM-RF-100KVAR	0876762	8426487009954	Ured=400VAC, Unc=450V, Max. THDI= 25%, Breaker switch 250A, 420x440x210, IP31
RVM-RF-10KVAR/T	0876763	8426487009961	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 40A, 420x440x210, IP31
RVM-RF-20KVAR/T	0876764	8426487009978	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 63A, 420x440x210, IP31
RVM-RF-30KVAR/T	0876765	8426487009985	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 63A, 420x440x210, IP31
RVM-RF-40KVAR/T	0876766	8426487009992	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 80A, 420x440x210, IP31
RVM-RF-50KVAR/T	0876767	8426487010004	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 80A, 420x440x210, IP31
RVM-RF-60KVAR/T	0876768	8426487010011	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 125A, 420x440x210, IP31
RVM-RF-80KVAR/T	0876769	8426487010028	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 200A, 420x440x210, IP31
RVM-RF-100KVAR/T	0876770	8426487010035	Ured=400VAC, Unc=450V, Max. THDI= 25%, temporizador, inter. corte 250A, 420x440x210, IP31



RDM Regulators.

Item	Code	EAN 13	Description
RDM4/400	0876230	8426487423811	RDM4 regulator, 4 outputs, 400V, 96x96mm
RDM4/230	0876691	8426487009176	RDM4 regulator, 4 outputs, 230V, 96x96mm
RDM4/400/S	0876692	8426487009183	RDM4 SAFE regulator, 4 outputs, 400V, THDI control and fixed scale option, 96x96mm
RDM4/230/S	0876693	8426487009190	RDM4 SAFE regulator, 4 outputs, 230V, THDI control and fixed scale option, 96x96mm
RDM4/400/C	0876694	8426487009206	RDM4 CYBER regulator, 4 outputs, 400V, port RS232, THDI control and fixed scale option, 96x96mm
RDM4/230/C	0876695	8426487009213	RDM4 CYBER regulator, 4 outputs, 230V, port RS232, THDI control and fixed scale option, 96x96mm
RDM6/400	0876231	8426487423828	RAM regulator, 6 outputs, 400V, and 96x96mm
RDM6/230	0876696	8426487009220	RAM regulator, 6 outputs, 230V, and 96x96mm
RDM6/400/S	0876689	8426487009152	RAM SAFE regulator, 6 outputs, 400V, THDI control and fixed scale option, 96x96mm
RDM6/230/S	0876697	8426487009237	RAM SAFE regulator, 6 outputs, 230V, THDI control and fixed scale option, 96x96mm
RDM6/400/C	0876688	8426487009138	RAM CYBER regulator, 6 outputs, 400V, port RS232, THDI control and fixed scale option, 96x96mm
RDM6/230/C	0876698	8426487009244	RAM CYBER regulator, 6 outputs, 230V, port RS232, THDI control and fixed scale option, 96x96mm
RDM12/400	0876232	8426487423835	RAM regulator, 12 outputs, 400V, and 144x144mm
RDM12/230	0876700	8426487009268	RAM regulator, 12 outputs, 230V, and 144x144mm
RDM12/400/S	0876701	8426487009275	RAM SAFE regulator, 12 outputs, 400V, THDI + temperature control and fixed scale option, 144x144mm
RDM12/230/S	0876702	8426487009282	RAM SAFE regulator, 12 outputs, 230V, THDI + temperature control and fixed scale option, 144x144mm
RDM12/230/C/2	0876703	8426487009299	RAM CYBER regulator, 12 outputs 230V, port RS232, THDI control and fixed scale option, 144x144mm
RDM12/230/C/5	0876704	8426487009305	RAM CYBER regulator, 12 outputs 230V, port RS485, THDI control and fixed scale option, 144x144mm
RDM12/400/C/2	0876705	8426487009312	RAM CYBER regulator, 12 outputs 400V, port RS232, THDI control and fixed scale option, 144x144mm
RDM12/400/C/5	0876705	8426487009312	RAM CYBER regulator, 12 outputs 400V, port RS485, THDI control and fixed scale option, 144x144mm
RDM-IP54/46	0876699	8426487009251	IP54 protection kit for RDM4 and RDM6
RDM-IP54/12	0876707	8426487009336	IP54 protection kit for RDM12
RDM/SW	0876708	8426487009343	Control and management software, for CYBER models

NEW


2 YEAR
GUARANTEE


Current transformers.

- Plastic chassis, shock-resistant, without flame spreading and auto-extinguishable, in accordance with UL94VO.
- Nickel secondary terminals, with protection lid included.
- Type E insulation class.
- Anchoring to plate strip, on panel or on DIN track (optional accessories).
- Open nucleus and closed nucleus models.

NÚCLEO CERRADO

Item	Code	EAN 13	Characteristics	Outside measurements (mm)
KTC315 50/5-3/1,25	0875900	8426487021055	50/5, class 3, 1,25VA	80 x 60 x 30
KTC315 60/5-1/1,25	0875901	8426487021062	60/5, class 1, 1,25VA	80 x 60 x 30
KTC315 75/5-3/2,5	0875902	8426487021079	75/5, class 3, 2,5VA	80 x 60 x 30
KTC315 75/5-1/1,5	0875903	8426487021086	75/5, class 1, 1,5VA	80 x 60 x 30
KTC315 80/5-3/2,5	0875904	8426487021093	80/5, class 3, 2,5VA	80 x 60 x 30
KTC315 80/5-1/2	0875905	8426487021109	80/5, class 1, 2VA	80 x 60 x 30
KTC315 100/5-3/3,75	0875906	8426487021116	100/5, class 3, 3,75VA	80 x 60 x 30
KTC315 100/5-1/2,5	0875907	8426487021123	100/5, class 1, 2,5VA	80 x 60 x 30
KTC412 125/5-3/5	0875908	8426487021130	125/5, class 3, 5VA	90 x 70 x 30
KTC315 125/5-1/3,75	0875909	8426487021147	125/5, class 1, 3,75VA	80 x 60 x 30
KTC412 125/5-0,5/1,25	0875910	8426487021154	125/5, class 0,5, 1,25VA	90 x 70 x 30
KTC315 150/5-1/5	0875911	8426487021161	150/5, class 1, 5VA	80 x 60 x 30
KTC412 150/5-0,5/2,5	0875912	8426487021178	150/5, class 0,5, 2,5VA	90 x 70 x 30
KTC412 200/5-3/7,5	0875913	8426487021185	200/5, class 3, 7,5VA	90 x 70 x 30
KTC315 200/5-1/7,5	0875914	8426487021192	200/5, class 1, 7,5VA	80 x 60 x 30
KTC315 200/5-0,5/5	0875915	8426487021208	200/5, class 0,5, 5VA	80 x 60 x 30
KTC315 250/5-1/10	0875916	8426487021215	250/5, class 1, 10VA	80 x 60 x 30
KTC315 250/5-0,5/5	0875917	8426487021222	250/5, class 0,5, 5VA	80 x 60 x 30
KTC315 300/5-1/10	0875918	8426487021239	300/5, class 1, 10VA	80 x 60 x 30
KTC315 300/5-0,5/5	0875919	8426487021246	300/5, class 0,5, 5VA	80 x 60 x 30
KTC315 400/5-1/10	0875920	8426487021253	400/5, class 1, 10VA	80 x 60 x 30
KTC315 400/5-0,5/5	0875921	8426487021260	400/5, class 0,5, 5VA	80 x 60 x 30
KTC315 500/5-1/10	0875922	8426487021277	500/5, class 1, 10VA	80 x 60 x 30
KTC315 500/5-0,5/5	0875923	8426487021284	500/5, class 0,5, 5VA	80 x 60 x 30
KTC315 600/5-1/10	0875924	8426487021291	600/5, class 1, 10VA	80 x 60 x 30
KTC315 600/5-0,5/5	0875925	8426487021307	600/5, class 0,5, 5VA	80 x 60 x 30
KTC315 750/5-1/10	0875926	8426487021321	750/5, class 1, 10VA	80 x 60 x 30
KTC315 750/5-0,5/5	0875927	8426487021338	750/5, class 0,5, 5VA	80 x 60 x 30
KTC412 800/5-1/15	0875928	8426487021345	800/5, class 1, 15VA	90 x 70 x 30
KTC412 800/5-0,5/10	0875929	8426487021352	800/5, class 0,5, 10VA	90 x 70 x 30
KTC412 1000/5-1/10	0875930	8426487021369	1000/5, class 1, 10VA	90 x 70 x 30
KTC412 1000/5-0,5/10	0875931	8426487021376	1000/5, class 0,5, 10VA	90 x 70 x 30
KTC512 1000/5-1/20	0875932	8426487021383	1000/5, class 1, 20VA	108 x 85 x 30
KTC512 1000/5-0,5/15	0875933	8426487021390	1000/5, class 0,5, 15VA	108 x 85 x 30
KTC512 1250/5-1/20	0875934	8426487021406	1250/5, class 1, 20VA	108 x 85 x 30
KTC512 1250/5-0,5/15	0875935	8426487021413	1250/5, class 0,5, 15VA	108 x 85 x 30
KTC512 1500/5-1/20	0875936	8426487021420	1500/5, class 1, 20VA	108 x 85 x 30
KTC512 1500/5-0,5/15	0875937	8426487021437	1500/5, class 0,5, 15VA	108 x 85 x 30
KTC615 1600/5-1/30	0875938	8426487021444	1600/5, class 1, 30VA	121 x 95 x 30
KTC615 1600/5-0,5/30	0875939	8426487021451	1600/5, class 0,5, 30VA	121 x 95 x 30
KTC615 2000/5-1/30	0875940	8426487021468	2000/5, class 1, 30VA	121 x 95 x 30
KTC615 2000/5-0,5/30	0875941	8426487021475	2000/5, class 0,5, 30VA	121 x 95 x 30
KTC615 2500/5-1/30	0875942	8426487021482	2500/5, class 1, 30VA	121 x 95 x 30
KTC615 2500/5-0,5/30	0875943	8426487021499	2500/5, class 0,5, 30VA	121 x 95 x 30
KTC1056 3000/5-1/30	0875944	8426487021505	3000/5, class 1, 30VA	155 x 129 x 30
KTC1056 3000/5-0,5/30	0875945	8426487021529	3000/5, class 0,5, 30VA	155 x 129 x 30

NEW

2 YEAR
GUARANTEE

Current transformers.

OPEN NUCLEUS

Item	Code	EAN 13	Characteristics	Outside measurements (mm)
KTCAP 60/5-3/1,25	0875946	8426487021536	60/5, clase 3, 1,25VA	122,5 x 120 x 75
KTCAP 75/5-3/1,25	0875947	8426487021543	75/5, clase 3, 1,25VA	122,5 x 120 x 75
KTCAP 100/5-3/2,5	0875948	8426487021550	100/5, clase 3, 2,5VA	122,5 x 120 x 75
KTCAP 100/5-1/1,25	0875949	8426487021567	100/5, clase 1, 1,25VA	122,5 x 120 x 75
KTCAP 125/5-3/3,75	0875950	8426487021574	125/5, clase 3, 3,75VA	122,5 x 120 x 75
KTCAP 125/5-1/1,25	0875951	8426487021581	125/5, clase 1, 1,25VA	122,5 x 120 x 75
KTCAP 150/5-3/3,75	0875952	8426487021598	150/5, clase 3, 3,75VA	122,5 x 120 x 75
KTCAP 150/5-1/2,5	0875953	8426487021604	150/5, clase 1, 2,5VA	122,5 x 120 x 75
KTCAP 200/5-3/3,75	0875954	8426487021611	200/5, clase 3, 3,75VA	122,5 x 120 x 75
KTCAP 200/5-1/3,75	0875955	8426487021628	200/5, clase 1, 3,75VA	122,5 x 120 x 75
KTCAP 250/5-3/7,5	0875956	8426487021635	250/5, clase 3, 3,75VA	122,5 x 120 x 75
KTCAP 250/5-1/3,75	0875957	8426487021642	250/5, clase 1, 3,75VA	122,5 x 120 x 75
KTCAP 300/5-3/10	0875958	8426487021659	300/5, clase 3, 10VA	122,5 x 120 x 75
KTCAP 300/5-1/5	0875959	8426487021666	300/5, clase 1, 5VA	122,5 x 120 x 75
KTCAP 400/5-3/20	0875960	8426487021673	400/5, clase 3, 20VA	122,5 x 120 x 75
KTCAP 400/5-1/7,5	0875961	8426487021680	400/5, clase 1, 7,5VA	122,5 x 120 x 75
KTCAP 500/5-1/10	0875962	8426487021697	500/5, clase 1, 10VA	122,5 x 120 x 75
KTCAM 500/5-1/5	0875963	8426487021703	500/5, clase 1, 5VA	154,5 x 159 x 71
KTCAG 500/5-1/2,5	0875964	8426487021710	500/5, clase 1, 2,5VA	199,5 x 163 x 71
KTCAP 600/5-1/15	0875965	8426487021727	600/5, clase 1, 15VA	122,5 x 120 x 75
KTCAM 600/5-1/7,5	0875966	8426487021734	600/5, clase 1, 7,5VA	154,5 x 159 x 71
KTCAG 600/5-1/5	0875967	8426487021741	600/5, clase 1, 5VA	199,5 x 163 x 71
KTCAP 750/5-1/20	0875968	8426487021758	750/5, clase 1, 20VA	122,5 x 120 x 75
KTCAM 750/5-1/15	0875969	8426487021765	750/5, clase 1, 15VA	154,5 x 159 x 71
KTCAG 750/5-1/10	0875970	8426487021772	750/5, clase 1, 10VA	199,5 x 163 x 71
KTCAP 800/5-1/30	0875971	8426487021789	800/5, clase 1, 30VA	122,5 x 120 x 75
KTCAM 800/5-1/20	0875972	8426487021796	800/5, clase 1, 20VA	154,5 x 159 x 71
KTCAG 800/5-1/10	0875973	8426487021802	800/5, clase 1, 10VA	199,5 x 163 x 71
KTCAP 1000/5-1/45	0875974	8426487021819	1000/5, clase 1, 45VA	122,5 x 120 x 75
KTCAM 1000/5-1/20	0875975	8426487021826	1000/5, clase 1, 20VA	154,5 x 159 x 71
KTCAG 1000/5-1/15	0875976	8426487021833	1000/5, clase 1, 15VA	199,5 x 163 x 71
KTCAM 1200/5-1/30	0875977	8426487021840	1200/5, clase 1, 30VA	154,5 x 159 x 71
KTCAG 1200/5-1/20	0875978	8426487021857	1200/5, clase 1, 20VA	199,5 x 163 x 71
KTCAM 1500/5-1/30	0875979	8426487021864	1500/5, clase 1, 30VA	154,5 x 159 x 71
KTCAG 1500/5-1/20	0875980	8426487021871	1500/5, clase 1, 20VA	199,5 x 163 x 71
KTCAG 1600/5-1/45	0875981	8426487021888	1600/5, clase 1, 45VA	199,5 x 163 x 71
KTCAG 2000/5-1/60	0875982	8426487021895	2000/5, clase 1, 60VA	199,5 x 163 x 71
KTCAG 2500/5-1/60	0875983	8426487021901	2500/5, clase 1, 60VA	199,5 x 163 x 71
KTCAG 3000/5-1/60	0875984	8426487021918	3000/5, clase 1, 60VA	199,5 x 163 x 71



Passive filters for the 3rd harmonic in Single-phase circuits

Problems associated with third harmonics

- Tripping of circuit breaker and automatics with no apparent reason.
- Excessive heating of cables.
- Currents in the neutral.
- Heating of transformer windings.

Loads producing third harmonics

- Personal computers photocopy machines, fax machines...
- Fluorescent lamps.
- General single-phase loads.

Filter characteristics

- Decrease in the third harmonic between 70% and 90%.
- Two models: one for 16 A circuits and another one for 10 A circuits.
- With parallel inductance and capacity, with the resonance frequency at 150 Hz.
- 10 A or 16 A magnetothermal switch depending if it is a filter for 10 A or 16 A circuits.
- Automatic by-pass.
- Measurements:
 - Width : 22.5 cm (27 cm with rack connection).
 - Height : 19 cm.
 - Depth : 18.5 cm.
- Weight:
 - 10 A filter : 5.1 kg.
 - 16 A filter : 6.7 kg.

Advantages

- Easy installation. Direct connection to the magnetothermal output.
- Uses very little space.
- Decrease in third harmonic between 70% and 90%.
- Its operation is independent from the phase balance degree.
- No resonance problems with the system.
- No need to be re-designed when adding new loads.

Item	Code	EAN 13	Characteristics
KFP-3H10A	0876000	8426487001798	3rd harmonic filter, 10 A
KFP-3H16A	0876001	8426487001804	3rd harmonic filter, 16 A

NEW

2 YEAR
GUARANTEE**Insulation transformers for the global filtering of 3rd harmonic.****Filter characteristics.**

- Prevents third harmonics upstream from the connection point.
- Wide range of models.
- Directly applied to the input of loads to eliminate the consuming and producing harmonics.

Advantages

- Easy installation.
- Decrease in I_{rms} and I_{Max} .
- Elimination of triplens (harmonics of 3, 9, 15 ...) in the phase currents.
- Provide galvanic insulation.
- Allows adaptation of the voltage level.
- Purely inductive filters: in no case they will generate resonances.
- Elimination of neutral currents upstream.

Item	Code	EAN 13	Characteristics
KTA1F-50	0876024	8426487002740	Single-phase insulation transformer 50VA
KTA1F-100	0876025	8426487002733	Single-phase insulation transformer 100VA
KTA1F-160	0876026	8426487002757	Single-phase insulation transformer 160VA
KTA1F-250	0876027	8426487002764	Single-phase insulation transformer 250VA
KTA1F-400	0876028	8426487002771	Single-phase insulation transformer 400VA
KTA1F-630	0876029	8426487002788	Single-phase insulation transformer 630VA
KTA1F-800	0876030	8426487002795	Single-phase insulation transformer 800VA
KTA1F-1200	0876031	8426487002801	Single-phase insulation transformer 1200VA
KTA3F-3700	0876032	8426487002818	Three-phase insulation transformer 0.37kVA
KTA3F-5300	0876033	8426487002825	Three-phase insulation transformer 0.53kVA
KTA3F-7000	0876034	8426487002832	Three-phase insulation transformer 0.70kVA
KTA3F-9000	0876035	8426487002849	Three-phase insulation transformer 0.90kVA
KTA3F-1101	0876036	8426487002856	Three-phase insulation transformer 1.10kVA
KTA3F-1601	0876037	8426487002863	Three-phase insulation transformer 1.60kVA
KTA3F-2701	0876038	8426487002870	Three-phase insulation transformer 2.70kVA
KTA3F-3101	0876039	8426487002887	Three-phase insulation transformer 3.10kVA
KTA3F-4501	0876040	8426487002894	Three-phase insulation transformer 4.50kVA
KTA3F-5501	0876041	8426487002900	Three-phase insulation transformer 5.50kVA
KTA3F-6001	0876042	8426487002917	Three-phase insulation transformer 6.00kVA
KTA3F-8401	0876043	8426487002924	Three-phase insulation transformer 8.40kVA
KTA3F-1252	0876044	8426487002931	Three-phase insulation transformer 12.5kVA
KTA3F-1752	0876045	8426487002948	Three-phase insulation transformer 17.5kVA
KTA3F-2202	0876046	8426487002955	Three-phase insulation transformer 22.0kVA

Line reactances for the blocking of odd harmonics.



This type of device is a simple and economical way of mitigating odd harmonics, not multiples of 3 (5th, 7th, 11th,...) in non-linear loads with different types of rectification (speed variators, UPS, ...). They considerably mitigate the harmonics consumed by the load, apart from absorbing possible voltage surges that may trip the protection circuit breakers.

Additionally, current high peaks that contain this type of signals are reduced, reducing the crest factor and the current RMS value.

Problems associated with odd harmonics not multiples of 3

- Decrease in the frequency variator life.
- Tripping of circuit breakers and automatics with no apparent reason.
- Tripping of protections by current peaks.
- Excessive heating of cables.
- Heating of transformer windings.

Item	Code	EAN 13	Characteristics
KRL1-02/ 14,66	0876013	8426487002627	Single-phase line reactance 2 A
KRL1-04/ 7,34	0876014	8426487002634	Single-phase line reactance 4 A
KRL1-06/ 4,89	0876015	8426487002641	Single-phase line reactance 6 A
KRL1-10/ 2,94	0876016	8426487002658	Single-phase line reactance 10 A
KRL1-16/ 1,84	0876017	8426487002665	Single-phase line reactance 16 A
KRL1-20/ 1,48	0876018	8426487002672	Single-phase line reactance 20 A
KRL1-25/ 1,48	0876019	8426487002689	Single-phase line reactance 25 A
KRL1-35/ 0,85	0876020	8426487002696	Single-phase line reactance 35 A
KRL1-40/ 0,74	0876021	8426487002702	Single-phase line reactance 40 A
KRL1-50/ 0,60	0876022	8426487002719	Single-phase line reactance 50 A
KRL1-63/ 0,50	0876023	8426487002726	Single-phase line reactance 63 A
KRL3-16/ 1,83	0876005	8426487001958	Three-phase line reactance 10 kVA
KRL3-20/ 1,47	0876006	8426487001965	Three-phase line reactance 12 kVA
KRL3-25/ 1,17	0876007	8426487001972	Three-phase line reactance 15 kVA
KRL3-35/ 0,84	0876008	8426487001989	Three-phase line reactance 22 kVA
KRL3-40/ 0,74	0876002	8426487001811	Three-phase line reactance 25 kVA
KRL3-50/ 0,59	0876009	8426487001996	Three-phase line reactance 32 kVA
KRL3-63/ 0,48	0876003	8426487001828	Three-phase line reactance 40 kVA
KRL3-80/ 0,37	0876010	8426487001941	Three-phase line reactance 50 kVA
KRL3-100/ 0,29	0876011	8426487002009	Three-phase line reactance 65 kVA
KRL3-125/ 0,23	0876012	8426487002016	Three-phase line reactance 85 kVA
KRL3-160/ 0,19	0876004	8426487001835	Three-phase line reactance 100 kVA

Filter reactances on the motor side.

The filter reactances on the motor side are connected between the variator and the motor, (that is to say, on the D.C. side). They eliminate high frequency switch signals kept at the output of the motor speed variator, and limit the flow of the current to the motor. Koban provides this type of reactances in compliance with the EC marking, with the following specifications.

Nominal Voltage	: 400 V
Voltage range	: 0 - 500 V (4%)
Fundamental frequency	: 10 Hz > 150 Hz
Switch frequency	: 2 kHz - 10 kHz
Protection level	: IP 00
Protection class	: Class 1
Inductance deviation	: $\pm 10\%$
Thermal class	: T40/B
Standards	: EN 60289/EN 615582-20

Item	Code	EAN 13	Characteristics
KRM-400/22	0876075	8426487006038	Filter reactance on motor side. Motor power: 2.2 Kw.
KRM-400/40	0876076	8426487006045	Filter reactance on motor side. Motor power: 4.0 Kw.
KRM-400/55	0876077	8426487006052	Filter reactance on motor side. Motor power: 5.5 Kw.
KRM-400/75	0876078	8426487006069	Filter reactance on motor side. Motor power: 7.5 Kw.
KRM-400/110	0876079	8426487006076	Filter reactance on motor side. Motor power: 11.0 Kw.
KRM-400/150	0876080	8426487006083	Filter reactance on motor side. Motor power: 15.0 Kw.
KRM-400/185	0876081	8426487006090	Filter reactance on motor side. Motor power: 18.5 Kw.
KRM-400/220	0876082	8426487006106	Filter reactance on motor side. Motor power: 22.0 Kw.
KRM-400/300	0876083	8426487006113	Filter reactance on motor side. Motor power: 30.0 Kw.
KRM-400/370	0876084	8426487006120	Filter reactance on motor side. Motor power: 37.0 Kw.
KRM-400/450	0876085	8426487006137	Filter reactance on motor side. Motor power: 45.0 Kw.
KRM-400/550	0876086	8426487006144	Filter reactance on motor side. Motor power: 55.0 Kw.
KRM-400/750	0876087	8426487006151	Filter reactance on motor side. Motor power: 75.0 Kw.
KRM-400/900	0876088	8426487006168	Filter reactance on motor side. Motor power: 90.0 Kw.
KRM-400/1100	0876089	8426487006175	Filter reactance on motor side. Motor power: 11.0 Kw.
KRM-400/1320	0876090	8426487006182	Filter reactance on motor side. Motor power: 13.2 Kw.
KRM-400/1600	0876091	8426487006199	Filter reactance on motor side. Motor power: 16.0 Kw.
KRM-400/2000	0876092	8426487006205	Filter reactance on motor side. Motor power: 20.0 Kw.

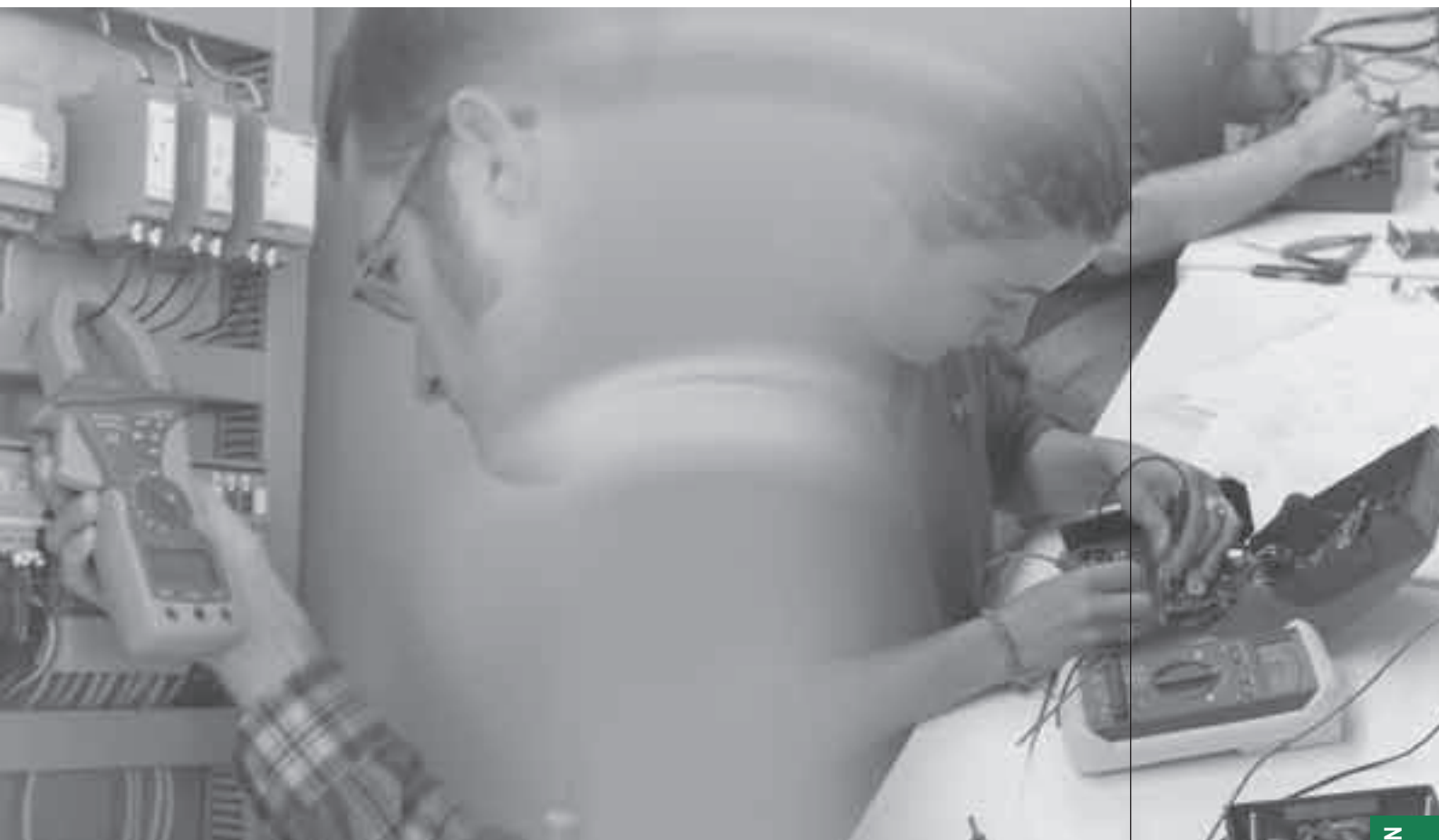
Anti-harmonic reactances for the protection of condenser batteries.



They are used to displace the Resonance frequency produced when the reactive compensation systems operate. In this way, a dangerous decrease in the impedance of said condensers is avoided, which can lead to their destruction.

The condensers dielectric suffers great degradation in presence of this type of harmonics. A prior harmonics study is required in order to select the most suitable configuration for the reactive compensation.

Item	Code	EAN 13	Characteristics
KRH-5.67/400/5	0876051	8426487005796	Power 5 Kvar; V= 400v. Resonance freq = 210 Hz.
KRH-5.67/400/10	0876052	8426487005802	Power 10 Kvar; V= 400v. Resonance freq = 210 Hz.
KRH-5.67/400/15	0876053	8426487005819	Power 15 Kvar; V= 400v. Resonance freq = 210 Hz.
KRH-5.67/400/20	0876054	8426487005826	Power 20 Kvar; V= 400v. Resonance freq = 210 Hz.
KRH-5.67/400/25	0876055	8426487005833	Power 25 Kvar; V= 400v. Resonance freq= 210 Hz.
KRH-5.67/400/30	0876056	8426487005840	Power 30 Kvar; V= 400v. Resonance freq = 210 Hz.
KRH-5.67/400/40	0876057	8426487005857	Power 40 Kvar; V= 400v. Resonance freq= 210 Hz.
KRH-5.67/400/50	0876058	8426487005864	Power 50 Kvar; V= 400v. Resonance freq = 210 Hz.
KRH-7/400/5	0876059	8426487005871	Power 5 Kvar; V= 400v. Resonance freq = 189 Hz.
KRH-7/400/10	0876060	8426487005888	Power 10 Kvar; V= 400v. Resonance freq = 189 Hz.
KRH-7/400/15	0876061	8426487005895	Power 15 Kvar; V= 400v. Resonance freq = 189 Hz.
KRH-7/400/20	0876062	8426487005901	Power 20 Kvar; V= 400v. Resonance freq = 189Hz.
KRH-7/400/25	0876063	8426487005918	Power 25 Kvar; V= 400v. Resonance freq= 189Hz.
KRH-7/400/30	0876064	8426487005925	Power 30 Kvar; V= 400v. Resonance freq = 189 Hz.
KRH-7/400/40	0876065	8426487005932	Power 40 Kvar; V= 400v. Resonance freq= 189Hz.
KRH-7/400/50	0876066	8426487005949	Power 50 Kvar; V= 400v. Resonance freq = 189 Hz.
KRH-14/400/5	0876067	8426487005956	Power 5 Kvar; V= 400v. Resonance freq = 134 Hz.
KRH-14/400/10	0876068	8426487005963	Power 10 Kvar; V= 400v. Resonance freq = 134 Hz.
KRH-14/400/15	0876069	8426487005970	Power 15 Kvar; V= 400v. Resonance freq = 134 Hz.
KRH-14/400/20	0876070	8426487005987	Power 20 Kvar; V= 400v. Resonance freq = 134Hz.
KRH-14/400/25	0876071	8426487005994	Power 25 Kvar; V= 400v. Resonance freq= 134Hz.
KRH-14/400/30	0876072	8426487006007	Power 30 Kvar; V= 400v. Resonance freq = 134 Hz.
KRH-14/400/40	0876073	8426487006014	Power 40 Kvar; V= 400v. Resonance freq= 134Hz.
KRH-14/400/50	0876074	8426487006021	Power 50 Kvar; V= 400v. Resonance freq = 134 Hz.



Measuring
instruments,
power analyser
and installation
testers



KOBAN 

The KOBAN logo consists of a stylized letter 'K' inside a circle, with the 'K' formed by two overlapping shapes.

**KM 01.**

- TRMS digital multimeter with backlit screen.
- Software and RS232C cable for PC connection.
- Analogue bar graph.
- 4,000 counts.
- Data hold function, maximums, minimums and relative mode.
- Frequency, capacitance and diode test.
- Automatic scale selection and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 01	0894101	8426488941017	1.000 VDC/750 VAC, 20 A, 40 MΩ

KM 02.

- TRMS digital multimeter with backlit screen.
- Temperature measurement (-20 °C - 750°C).
- Analogue bar graph.
- Data hold function, maximums and minimums.
- 4,000 counts.
- Automatic/manual scale selection.
- Frequency, capacitance, transistor and diode test.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 02	0894102	8426488941024	1.000 VDC/750 VAC, 20 A, 40 MΩ

KM 03.

- Audible continuity indicator.
- Backlit screen.
- 4,000 counts.
- Automatic/manual scale selection.
- Frequency, capacitance, transistor and diode test.
- Data hold function, maximums and minimums.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 03	0894103	8426488941031	1.000 VDC/750 VAC, 20 A, 40 MΩ

**KM 04.**

- Audible continuity indicator.
- Backlit screen.
- 2,000 counts.
- Manual scale selection.
- Frequency, capacitance, transistor and diode test.
- Temperature measurement (-20 °C -750 °C).
- Data hold function.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 04	0894104	8426488941048	1.000 VDC/750 VAC, 10 A, 200 MΩ

KM 05.

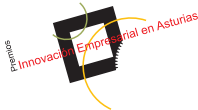
- Audible continuity indicator.
- Backlit screen.
- 2,000 counts.
- Manual scale selection.
- Transistor and diode test.
- Data hold function.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 05	0894105	8426488941055	1.000 VDC/750 VAC, 10 A, 200 MΩ

KM 06.

- Audible continuity indicator.
- 2,000 counts.
- 1.5 V and 9 V battery check.
- Manual scale selection.
- Diode test.
- Low battery indicator.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 06	0894106	8426488941062	1.000 VDC/750 VAC, 10 A, 20 MΩ



KM 07.

- Audible continuity indicator.
- 2,000 counts.
- Automatic and manual scale selection.
- Diode test.
- Data hold function.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 07	0894107	8426488941079	600 VDC/600 VAC, 10 A, 20 MΩ



KM 08.

- Audible continuity indicator.
- 2,000 counts.
- Backlit screen.
- Manual scale selection.
- Diode test.
- Data hold function.
- Low battery indicator.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KM 08	0894108	8426488941086	600 VDC/600 VAC, 10 A, 2 MΩ



KM 09.

- Pocket sized digital multimeter.
- 4000 counts.
- Data hold function.
- Automatic scale selection.
- Frequency measurement.
- Continuity, diode and Continuidad, diodos y capacitance test.
- Automatic low battery indicator and switch-off.

Item	Code	EAN 13	Features
KM 09	0875079	8426487020973	600 VDC/600 VAC, 400 mA, 40 MΩ

NEW

**KOD 20. 20 MHz digital portable oscilloscope.**

- RS-232C interface for PC connection, true efficient value, auto-scale in the multimeter and frequency measurer (10 MHz)
- Low battery indication
- Smart switch-off
- Includes instruction manual, transport bag, test probes, AC adaptor.

Item	Code	EAN 13	Features
KOD 20	0875869	8426487005758	Includes: instructions manual, transport Bag, scope probes, AC adaptor

NEW

**KOD 2000. 2 MHz digital portable oscilloscope.**

- Equivalent to an oscilloscope with a powerful display of waveforms.
- RS-232C interface for PC connection, true efficient value, auto-scale in the multimeter and frequency measurer (10 MHz)
- Low battery indication
- Smart switch-off

Specifications: OSCILLOSCOPE	Specifications: DIGITAL MULTIMETER
Continuous band width of up to 2 MHz	Digital display of 3 3/4, 4000 counts
Sampling time: 10MS	Manual selection of scale or automatic selection
Vertical sensibility: 0.1 V/div- 100 V/ div	Retention of maximum and minimum
Horizontal Sweep: 2µs/div- 2 s/div	True efficient value
Trigger: automatic and manual	DC/AC V, DC/AC A.
Measures with cursor: Δt, Δv	Resistance
Self-adjustment function	Capacity
Save and load data in waveforms and establish data	Diode test
	Continuity
Sampling time: 10 MS/s	Analogical graphic bar, buzzer sound
Type of probes: scope probes	Relative measurements, dBm
Input channel, channel 1	overscale indicator

Item	Code	EAN 13	Features
KOD 2000	0875867	8426487005765	Includes: multimeter, case, adaptor, rechargeable batteries, 3.5" floppy disk with software, scope probes and manual

NEW

**KM 8218. High resolution digital multimeter.**

- Digital multimeter with true efficient value in A.C. and D.C.
- 50,000 count display and analogical bar with 50 segments.
- Automatic/manual scale selection, retention of readings on screen, maximum, minimum, relatives and Max.-min.
- Power measurement (dBm).
- Automatic switch-off or continuous working mode and low battery indicator.
- Includes multimeter, scope probes, transport cases, software and RS-232 C adaptor for PC connection, instruction manuals and batteries.

Item	Code	EAN 13	Features
KM 8218	0875061	8426487005659	High precision digital multimeter. Measurer of up to 1,000 V.

NEW



KMO 1280

Multimeters-Oscilloscopes.

- Multimeter –oscilloscope with LCD screen, 128 x 128 pixels.
- Output signal: 1Hz- 10 khz.
- True efficient value measurements
- Automatic scale selection.
- Retention of data and scales.
- Retention of maximum and minimum values.
- Overscale and low battery indicator.
- Includes cases, scope probes and manual.

Item	Code	EAN 13	Features
KMO 1280	0875868	8426487005772	Multimeter-oscilloscope with continuous band width of up to 5 Mhz.
KMO 740	0875864	8426487758647	Band width 1 MHZ 25 mega samples per second

NEW



KMA 6231

Digital multimeters for the vehicle industry.

- Digital multimeter with special functions for the vehicle industry.
- 3½ digit screen.
- Automatic/manual scale selection, retention of readings on screen and maximums.
- Low battery indicator and automatic switch-off.
- Protection against surges for all scales and measurements.
- Temperature measurement, continuity test and diode test.
- Includes: multimeter, scope probes, type "K" thermopar probe, instructions manual and batteries.
- Possibility of supplying an additional pincer ammeter for measurements of up to 2,000 A.

Item	Code	EAN 13	Features
KMA 6231	0875866	8426487005734	Digital multimeter. Input impedance 10 MΩ
KMA 786	0875863	8426487758630	1000 VDC, 750 VAC, 10 A 40 MW, 200 MHz, 10000 μF, 40 MΩ

NEW



KMA 8211. Pencil- type multimeter.

- Pencil-type digital multimeter with a 2,000 count display.
- Detection of alternate current without contact.
- Sound and visual alarm.
- AC/DC voltage and resistance measurement.
- Diode and continuity test.
- Data and maximum value retention.
- Automatic switch off and auto scale.
- Low battery indicator.
- In accordance with IEC 1010-1 and CAT III 600V.

Item	Code	EAN 13	Features
KM 8211	0875063	8426487005673	Pencil-type multimeter, supply of 2x1.5V. 600 V AC/DC, 20 MΩ



Digital water-resistant multimeter.

- True efficient value.
- Digital multimeter, strongly made.
- Protection level IP 64.
- Resistant to falls from 1.5 m.
- Automatic switch-off.
- Rubber protection case.
- Designed in compliance with IEC 1010-1. CAT II, 1,000 V.

Item	Code	EAN 13	Features
KM 97R	0875870	8426487758708	Auto-sc. 1,000 VDC, 750 VAC, 20 A, 32 MΩ, true efficient value



KM 2600.

- High range multimeter with advanced measurement functions.
- IEC 61010.

Item	Code	EAN 13	Features
KM 2600	0875100	8426487751006	3 3/4, 1,000 V, 20 A, 40 MΩ auto-scale, analogic bar



KM 3700.

- Digital multimeter of similar features to the previous.
- Automatic /manual scale selection. Data retention on screen. Automatic switch-off.
- Max/min/rel function. Data storage and reading in memory.
- IEC 61010.

Item	Code	EAN 13	Features
KM 3700	0875804	8426487758043	1000 V, 20 A, 40 MΩ



KM 83 Series.

- Consists of three simplified, small-sized digital multimeters.
- Elegant design. Back-lit screen (KM 830L)
- Basic measuring functions.
- KM 838 includes temperature measurement
- Include protective rubber casing with mount-stand.
- IEC 1010.

Item	Code	EAN 13	Features
KM 830 B	0875073	8426487750733	600 V, 10 A, 2 MΩ, diodes, transistors
KM 830 L	0875074	8426487750740	600 V, 10 A, 2 MΩ, cont. diodes, trans, lum. scr.
KM 838	0875075	8426487750757	600 V, 10 A, 2 MΩ, cont. diodes, trans, temp.

KM 7004. Analogical multimeter.



- 7-function 20-range analogical multimeter.
- Made in accordance with EN 61010/IEC 1010. CAT II, 600 V.
- Measuring of DC current up to 10A.
- Battery check test.
- Audible continuity indicator.
- Protection fuse.

Item	Code	EAN 13	Features
KM 7004	0875058	8426487750580	500 V, 10 A, 2 MΩ, -10~56 dBm

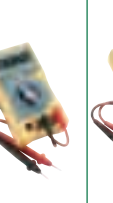
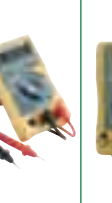
KM 7007. Analogical multimeter.

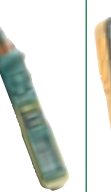


- Analogical multimeter; simple version.
- 6 functions and 16 scales.
- EN 61010/IEC 1010. CAT II, 300 V.

Item	Code	EAN 13	Features
KM 7007	15,80 0875059	8426487750597	500 V, 250 mA, 2 MΩ, -10~56 dBm

Overview Table.

ARTICLES									
FUNCTIONS	KM 01	KM 02	KM 03	KM 04	KM 05	KM 06	KM 07	KM 08	KM 09
AC voltage, up to	750 V	750 V	750 V	750 V	750 V	750 V	600 V	600 V	600 V
DC voltage, up to	1.000 V	1.000 V	1.000 V	1.000 V	1.000 V	1.000 V	600 V	600 V	600 V
AC current, up to	20 A	20 A	20 A	10 A	10 A	10 A	10 A	10 A	400 mA
DC current, up to	20 A	20 A	20 A	10 A	10 A	10 A	10 A	10 A	400 mA
Resistance, up to	40 MΩ	40 MΩ	40 MΩ	200 MΩ	200 MΩ	20 MΩ	20 MΩ	2 MΩ	40 MΩ
Frequency, up to	40 MHz	40 MHz	40 MHz	20 kHz					100 kHz
Capacity, up to	40 mF	40 mF	40 mF	20 mF					100 mF
Temperature, up to		-20 to 750 °C		-20 to 750 °C					
Continuity beeper	✓	✓	✓	✓	✓	✓	✓	✓	✓
Diode test	✓	✓	✓	✓	✓	✓	✓	✓	✓
Transistors test		✓	✓	✓	✓				
Logical states test									
Battery test						9 V & 1,5 V			
True r.m.s. measuring	✓	✓							
Wave form visualization									
Multiple Display									
PC Connection	✓								
Automotive Industry Applications									
Data holding	✓	✓	✓	✓	✓		✓	✓	✓
Peak holding									
Maximum/minimum/medium	✓/✓/✓	✓/✓/-	✓/✓/-						
Automatic scale selection	✓	Auto/ manual	Auto/ manual	Manual	Manual	Manual	Auto/ manual	Manual	✓
Memory for data holding									
Comparison function (pass/fail)									
Display type (no. of digits)	3 3/4	3 3/4	3 3/4	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 3/4
Graphical Bar	Analogical	Analogical							
Backlight display	✓	✓	✓	✓	✓			✓	
Auto power-off	✓	✓	✓	✓	✓		✓		✓
Low battery display	✓	✓	✓	✓	✓	✓	✓	✓	✓
Code	0894101	0894102	0894103	0894104	0894105	0894106	0894107	0894108	0875079
EAN	8426487941018	8426488941024	8426487941032	8426487941049	8426488941055	8426488941062	8426488941079	8426488941086	8426487020973

											
KM 8218	KMO 740	KM 97R	KM 2600	KM 3700	KM 830 B	KM 830 L	KM 838	KMA 6231	KM 8211	KM 7004	KM 7007
1.000 V	750 V	750 V	750 V	750 V	600 V	600 V	600 V	600 V	600 V	500 V	500 V
1.000 V	1.000 V	1.000 V	1.000 V	1.000 V	600 V	600 V	600 V	600 V	600 V	500 V	500 V
10 A	10 A	20 A	20 A	20 A				10 A			
10 A	10 A	20 A	20 A	10 A	10 A	10 A	10 A	10 A		10 A	250 mA
50 MΩ	40 MΩ	30 MΩ	40 MΩ	40 MΩ	2 MΩ	2 MΩ	2 MΩ	20 MΩ	20 MΩ	2 MΩ	2 MΩ
5 MHz	2.000 MHz		500 kHz	500 kHz							
5.000 mF	400 mF		40 mF	30 mF							
							750 °C	-20 °C/ 1.000 °C			
✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
			✓		✓	✓	✓				
	✓										
										✓	
✓	✓	✓									
	✓										
	2 readings										
✓	✓										
								✓			
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	✓										
✓	✓		✓	✓				✓/-/-	✓/-/-		
Auto/ manual	✓	✓	✓	✓				✓	✓		
			✓	✓							
	✓										
50.000 counts	160x240 4.000 counts	3 3/4	3 3/4	3 3/4	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	Analogical	Analogical
Analogical		✓	✓	✓						✓	✓
✓	✓					✓		✓			
✓		✓	✓					✓	✓		
✓		✓	✓	✓	✓	✓	✓	✓	✓		
0875061	0875864	0875870	0875100	0875804	0875073	0875074	0875075	0875866	0875063	0875058	0875059
8426487005659	8426487758647	8426487758708	8426487751006	8426487758043	8426487750733	8426487750740	8426487750757	8426487005734	8426487005673	8426487750580	8426487750597

**KP 01.**

- TRMS digital clamp meter with backlit screen. With analogue bar graph.
- Diodes test.
- 4,000 counts.
- Jaw capacity 55 mm.
- Automatic scale selection.
- Audible continuity indicator.
- Data hold function, maximums and minimums.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KP 01	0894201	8426487942015	1.000 VDC / 750 VAC, 1.000 A DC/AC 400 KHz, 40 MΩ

KP 02.

- TRMS digital clamp meter with backlit screen. With analogue bar graph.
- 4,000 counts.
- Jaw capacity 42 mm.
- Automatic/manual scale selection.
- Audible continuity indicator.
- Data hold function, maximums and minimums.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KP 02	0894202	8426488942021	600 VDC / 600 VAC, 600 A DC/AC 400 kHz, 40 MΩ

KP 03.

- Temperature measurement.
- 4,000 counts.
- Diode and capacitance test.
- Jaw capacity 55 mm.
- Automatic/manual scale selection.
- Audible continuity indicator.
- Data hold function.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KP 03	0894203	8426488942038	1.000 VDC / 750 VAC, 1.000 A DC/AC 100 KHz, 40 MΩ, 20 °C a 750 °C



KP 04.

- Digital clamp meter with backlit screen.
- 4,000 counts.
- Diodes test.
- Jaw capacity 42 mm.
- Automatic/manual scale selection.
- Audible continuity indicator.
- Data hold function.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KP 04	0894204	8426488942045	600 VDC / 600 VAC, 600 A DC/AC 200 KHz, 24 MΩ



KP 05.

- Digital clamp meter with backlit screen.
- Temperature measurement.
- 2,000 counts.
- Jaw capacity 55 mm.
- Automatic scale selection.
- Audible continuity indicator and diodes test.
- Data hold function.
- Automatic low battery indicator and switch-off.
- According to EN 61010 CAT II 1,000 V and CAT III 600 V.

Item	Code	EAN 13	Features
KP 05	0894205	8426488942052	1.000 VDC / 750 VAC, 1000 A AC 20 MΩ, 20 °C a 750 °C



KP 06.

- 2,000 counts.
- Jaw capacity 42 mm.
- Manual scale selection.
- Audible continuity indicator.
- Data hold function.
- Low battery indicator.
- According to EN 61010 CAT III 600 V.

Item	Code	EAN 13	Features
KP 06	0894206	8426488942069	600 VDC / 600 VAC, 600 A AC 200 KΩ



KP 2203. Clamp-on ammeter-wattmeter for 3-phase networks.

- Portable meter that in addition to offering standard clamp-on ammeter functions, allows you to analyse the power of all types of electricity networks.
- Single and three-phase, stable and instable systems.
- Power factor.
- Active energy (KWh.).
- Dual screen display (KW + cosØ, KVA + KVAR, V + Hz...).
- True RMS.
- Automatic scale and AC/DC selector.
- IEC 1010-2-032. CAT III. 600V.
- Jaw capacity: Ø50mm. for cables. Bus bar: 65 x 24mm.
- Includes Windows software and interface.

Item	Code	EAN 13	Features
KP 2203	0875145	8426487751457	600 Kw, 1.000 A, 10 MΩ, 600 VAC, factor de potencia 0,3 cap - 0,3 ind.



KP 2000. AC/DC Clamp-on ammeter up to 2,500A.

- Alternating current measurement up to 2,100A, direct current up to 2,500A.
- Measurement in TRMS.
- Automatic/manual scale selection.
- 3 ¾ digits digital screen with high-speed sample analogical bar: 20 samples per second.
- Max./min. functions.
- Data hold.
- Relative measurements.
- Jaw capacity: Ø55mm for cables. Bus bar: 65 x 24 mm.
- IEC 1010-2-032. CAT III. 600V.

Item	Code	EAN 13	Features
KP 2000	0875106	8426487751068	2.100/2.500 A, 600 V, 40 MΩ, diodes, continuity



High-resolution clamp-on ammeter.

- True R.M.S. clamp meter, high precision and resolution.
- Ideal for picking up small current signals, reflecting minute variations in them.
- AC/DC current measurements.
- IEC 1010-2-032

Item	Code	EAN 13	Features
KP 30R	0875872	8426487758722	300 A, 600 V, resolution 10 mA, jaw capacity 22 mm.



Loss-detection Pincers.

- New range of loss-detection pincers.

KPF-01.

- Loss-detection Pincer.
- Pincer ammeter of up to 150 A.
- Wattmeter Pincer of up to 100 kW.
- Measurement of harmonics, both in % and in A.
- Crest value indication.
- Power factor indication.
- Graphic visualisation of icons indicating the nature of the current.
- Phase angle indication.
- Indication of the possible reason for the tripping of the circuit breaker.

KPF-02.

- Same features as the previous, without the wattmeter function.

KPf-03.

- Simplest and most economical version in the range.

Item	Code	EAN 13	Features
KPF-01	0894220	8426487008445	Losses, multimeter, wattmeter, harmonics
KPF-02	0894221	8426487008452	Losses, multimeter, harmonics
KPF-03			Losses, multimeter

2 YEARS
GUARANTEE



Clamp-on leak detectors.

- Clamp meter for the detection and location of leaks in installations, whether they be from ground leaks or unbalance between phases.
- Extremely useful tools for effective troubleshooting.
- With 50/60 Hz selector.
- IEC 1010-2-032.

Item	Code	EAN 13	Features
KPCM 03	0875128	8426487751280	100 A, 400 V, 400 Ω , analogue bar, jaw capacity: 30 mm.

2 YEARS
GUARANTEE



KP 8030A. A.C. and D.C. Pincer, 1,200 A.

- A.C. and D.C. Pincer ammeter.
- Readings and peaks retention.
- In compliance with IEC 1010-2-032. CAT III, 600 V.

Item	P.V.P. / ud	Code	EAN 13	Features
KP 8030A	278,30	0875802	8426487758029	1,200 A, 1,000 VDC, 750 VAC, 500 KHz, 40 M Ω , 30 μ F, diodes, max. cap. 51 mm.

KPF-03. Loss-detection digital Pincer.



- Loss detection digital Pincer with 3½ digits LCD screen.
- Three manual selection scales up to 150 A AC, and retention of readings on screen.
- Low battery indicator.
- Jaw capacity Ø 31 mm.
- Includes: pincers, instructions manual, transport case.

Item	Code	EAN 13	Features
KPF 03	0875129	8426487005703	Surge protection. Frequency scale: 60 Hz.

KP 9805 Series. 2.000 A clamp-on ammeter with back-lit screen.



- Two clamp-on ammeters with back-lit LCD display that provides readings up to 2.000 A of AC current.
- Data hold and peak hold functions.
- Built according to the IEC 1010-2-032 international standard.
- Jaw capacity: 36 mm.

Item	Code	EAN 13	Features
KP 9805T	0875070	8426487750702	Screen 3 1/2 digits, 2.000 A, 750 V, 200 MΩ, 20 KHz, temp. up to 750°C

KP 266. 600 A clamp-on ammeter with insulation measurement.



- Clamp-on ammeter up to 600 A of AC current.
- Data hold function.
- 3 1/2 digit screen.
- Jaw capacity: 50 mm.
- With the optional adapter, KPA 261, it is capable of performing measurements of insulation resistance.
- IEC 1010-2032. CAT II, 600 V.

Item	Code	EAN 13	Features
KP 266	0875065	8426487750658	1000 A, 1000VDC/750VAC, 20 KΩ, continuity
KPA 261	0875066	8426487750665	Two scales: 20 MΩ , 2.000 MΩ, 500 V

KP 375. Analogical clamp-on ammeter.



- Analogical testers for measuring AC current, AC/DC voltage and resistance.
- Safety design with protected connector and inlets under touch level.
- Rotary range drum to place the tester in the more suitable function and range in a quick and fast way, just with one hand.
- Manual needle blocking to hold the reading.
- Jaw capable of covering up to 38mm conductors.
- According to IEC-1010 CAT III.

Item	Code	EAN 13	Features
KP 375	0875021	8426487750214	300 ACA, 600 VAC, 75 VDC, 2 KΩ

KP 2600. Digital Pincer ammeter with open jaw.



- Measurements with open jaw.
- DC voltage measurement.
- Voltage and AC current measurement.
- Measurement of resistance, capacity, diode and continuity test.
- Frequency.
- Manual and automatic scale. Actor and relative measurement retention.
- Screen with 3,999 counts, with retro illumination.
- Auto switch-off.

Item	Code	EAN 13	Features
KP 2600	0875147	8426487005642	1000 V VDC, 700 V VAC, 200 A, 40MΩ

KP 2102. Digital Minipincer ammeter.



- Digital Minipincer ammeter with 4,000 count screen and 42 segment analogical bar.
- Automatic/ manual scale selection and retention of readings on screen.
- Low battery indicator and smart automatic switch-off.
- Jaw capacity: 28 mm.

Item	Code	EAN 13	Features
KP 2102	0875146	8426487005635	600 V AC/DC, 400 A AC/DC, 400Ω

Clamp-on resumen table.

ARTICLES							
FUNCTIONS	KP 01	KP 02	KP 03	KP 04	KP 05	KP 06	KP 2000
AC current, up to	1.000 A	600 A	1.000 A	600 A	1.000 A	600 A	2.100 A
DC current, up to	1.000 A	600 A	1.000 A	600 A			2.500 A
AC voltage, up to	750 V	600 V	750 V	600 V	750 V	600 V	600 V
DC voltage, up to	1.000 V	600 V	1.000 V	600 V	1.000 V	600 V	600 V
Resistance, up to	40 MΩ	40 MΩ	40 MΩ	24 MΩ	20 MΩ	200 kΩ	40 MΩ
Frequency, up to	400 kHz	400 kHz	100 kHz	200 kHz			1 MHz
kW, kVA, power factor							
Temperature, up to			-20°C 750°C		-20°C 750°C		
Continuity beeper	✓	✓	✓	✓	✓	✓	✓
Diode test	✓		✓	✓	✓		✓
Capacity, up to			100 °F				
Insulation Resistance							
Leak Current with Harmonic Filters							
True r.m.s. measuring	✓	✓					✓
Pc connection							
Analogical Output for Register							✓
Data holding	✓	✓	✓	✓	✓	✓	✓
Peak Measuring/Holding							
Maximum/minimum/medium	✓	✓					✓
Automatic scale selection	✓	Auto/manual	Auto/manual	Auto/manual	✓	Manual	Auto/manual
Jaws capacity	55 mm	42 mm	55 mm	42 mm	55 mm	42 mm	55 mm
Display type (no. of digits)	3 3/4	3 3/4	3 3/4	3 3/4	3 1/2	3 1/2	3 3/4
Graphical Bar	Analogical	Analogical					✓
Backlight display	✓	✓		✓	✓		
Auto power-off	✓	✓	✓	✓	✓		
Low battery display	✓	✓	✓	✓	✓	✓	✓
Code	0894201	0894202	0894203	0894204	0894205	0894206	0875106
EAN13	8426487942015	8426488942021	8426488942038	8426488942045	8426488942052	8426488942069	8426487751068

								
KP 9805T	KP 2203	KP 2102	KP 375	KP 30R	KP 2600	KPCM 03	KPF 03	KP 266
2.000 A	1.000 A	400 A	300 A	300 A	200 A	60 A	150 A	1.000 A
		400 A		300 A				
750 V	600 V	600 V	600 V	600 V	700 V	400 V	600 V	750 V
1.000 V		600 V	750 V	600 V	1.000 V			1.000 V
2 MΩ		400 Ω	2 kΩ	4 MΩ	40 MΩ	400 Ω		20 kΩ
20 kHz	1 kHz				100 kHz			
	✓							
750 °C								
✓		✓		✓	✓	✓		✓
✓					✓			
					4 °F			
								with optional KPA 261 adapter
						✓		
	✓			✓				
	✓							
✓	✓	✓	✓	✓	✓	✓	✓	✓
				✓				
	✓					✓		
	✓	Auto/manual		✓	Auto/manual			
50 mm	50 mm	Ø 28 mm	38 mm	25 mm		30 mm	31 mm	50 mm
3 1/2	4	3 3/4	Analogical	3 3/4	3 3/4	3 3/4	3 1/2	3 1/2
	✓	42 segments				✓		
✓	✓				✓			
				✓	✓	✓		
✓	✓	✓		✓	✓	✓		✓
0875070	0875145	0875146	0875021	0875872	0875147	0875128	0875129	0875065
8426487750702	8426487751457	8426487005635	8426487750214	8426487758722	8426487005642	8426487751280	8426487005703	8426487750658



KRT 1520. Earth resistance meter.

- Digital earth resistance and voltage meter.
- Includes two auxiliary rods to connect in-line with the installation grounding rod, three cables, carrying case and instruction manual.
- Designed in compliance with IEC 1010-1 regulations.

Item	Code	EAN 13	Features
KRT 1520	0875038	8426487750382	Resistance: 20 Ω /200 Ω /2.000 Ω Voltage: 0-200 VCA



KRB 3000. Loop impedance and probable short-circuit current meter.

- Instrument that enables readings of the earth system of an installation, in the distribution panel or electrical outlets.
- It uses the loop impedance method that also gives a reading of the maximum short-circuit current possible in the event that one occurs.
- Protection and indication of overheating.
- Batteries not required.
- IEC 1010.

Item	Code	EAN 13	Features
KRB 3000	0875822	8426487758227	Resistance: 20 Ω /200 Ω /2.000 Ω PCC max: 4 KA



KRB 811. Loop and short circuit current meter.

- Advanced version microprocessor controlled.
- Simple self-testing and correct/incorrect connection indication.
- Single-button unit control.
- Auto-scale and automatic switch-off.
- 'Schuko' adapter to carry out tests of any socket of this type.
- Simultaneous indication of loop resistance (loop), possible short circuit current (PSC) and test voltage.
- IEC 1010. CAT III.

Item	Code	EAN 13	Features
KRB 811	0875022	8426487750221	Resistance: 10 Ω /100 Ω /1.000 Ω Tensión: 0-30 VCA



KRA 2550. Insulation resistance meter.

- Instrument designed for the measurement of high-voltage insulation resistance.
- Microprocessor controlled.
- Automatic scale selection.
- Automatic switch-off.
- Analogue bar indicates test voltage and voltage drop-off during discharging.
- IEC 1010.

Item	Code	EAN 13	Features
KRA 2550	0875032	8426487750320	20 M Ω /200 M Ω /2.000 M Ω , 600 VAC, continuity < 200 Ω

KRA 1851. Insulation, voltage and continuity meter.



- Advanced equipment that has an extremely efficient and accurate converter, endowing the readings with a high level of stability.
- Three functions in a single unit: insulation resistance, AC voltage and continuity.
- Test voltages: 250V, 500V and 1,000V.
- 2,000-count wide LCD screen (3 ½ digits).
- Indication by means of external voltage presence LED.
- Made according to IEC 1010 and CAT III standards.

Item	Code	EAN 13	Features
KRA 1851	0875023	8426487750238	200 MΩ/2.000 MΩ, 600 VAC, continuity 20 Ω, 2 kΩ

Phase sequence indicator.



- Two instruments ideal for rapidly checking the connection order of three-phase lines. One model (KF 860) also allows the running direction of three-phase engines to be predicted, as per the established three-phase connection.
- Both built according to the IEC 1010-1 Standard.

Item	Code	EAN 13	Features
KF 860	0875024	8426487750245	Indication of phase order and engine rotation
KF 80	0875808	8426487758081	Indication of phase order

KMF 5010 Multifunction unit.



- Combines all the functions of an installation safety tester in one unit. Practical, easy to use and reduced size.
- Altogether there are 7 functions:
 - Resistance/continuity.
 - Earth resistance with rods (two methods).
 - Insulation resistance.
 - Loop impedance.
 - Possible short-circuit current.
 - RCD tester.
 - AC/DC voltage.
- Simultaneous dual display screen.
- Indication of phase angle.
- Selector 0°-180°
- Indication of correct/incorrect connection.
- Includes carrying case, rods set, testing tips, crocodile type connectors and instructions.
- IEC 1010.

Item	Code	EAN 13	Features
KMF 5010	0875862	8426487758623	2060 MΩ, 20-2.000 Ω, 10/30/100/300/500 mA (x1/2, x5)

Voltage and continuity detector.



- Several versions of instruments designed for contact and non-contact voltage detection.
- Phase and neutral indicator, continuity check, etc.
- Quick and easy to use, these tools are very practical and useful in electrical environments.
- Manufactured in compliance with EN 50081-1, EN 50082-1, DIN VDE 0680 regulations (depending on model).

Item	Code	EAN 13	Features
KTF 8	0891850	8426487918508	12-600 VAC/DC, polarity, continuity, direct phase/neutral detection, RCD test, LED
KTP 4	0891851	8426487918515	12-400 VAC/DC, polarity, LED
KB 471	0875849	8426487758494	Voltage detection without contact, metal detection, continuity.
KDT 8900	0891852	8426487005741	Voltage detection without contact 100-240 VAC

KRA 2804. High-voltage insulation resistance meter.



- Instrument designed for the measurement of high-voltage insulation resistance.
- Microprocessor controlled.
- Automatic scale selection.
- Automatic switch-off.
- Analogue bar indicates test voltage and voltage drop-off during discharging.
- IEC 1010.

Item	Code	EAN 13	Features
KRA 2804	0875823	8426487758234	1/2,5/5/10 KV. 50/125/250/500 GΩ

KRA 4104. A.T. insulation measurer



- Microprocessor controlled with advanced safety measures.
- Indicates if danger exists due to the presence of voltage.
- Continuous monitorisation of the battery.
- Automatic scale selection and automatic switch-off.
- Low-resistance automatic detection.
- Graphic bar display in real time of the voltage measurement during discharge.

Item	Code	EAN 13	Features
KRA 4104	0875840	8426487005598	1/2,5/5/10KV. 60/150/300/600 GΩ

KPD 20. High Voltage Probe



- Probe for high voltage measurement for multimeter.
- The probe crocodile jaw should be connected to earth before carrying out the measurement, and check that it is well earthed.
- Continuous monitorisation of the battery.
- Excellent insulation features in the chassis.

Specifications:

Input impedance 500 MΩ

Attenuation ratio 1000-1

Max working voltage 20 kVAC and 30 kVDC

Cable length 1 m

Item	Code	EAN 13	Features
KPD 20	0875830	8426487005499	Model for connection to oscilloscope (PD 20S) also available.

NEW


KPD 40 AM. High Voltage Probe

- Probe for high voltage measurement, with analogical screen for direct measurement of DC voltage.
- The probe crocodile pincer should be connected to ground before carrying out the measurement, and check that it is well earthed. The source of voltage should be switched off before any connection.

Specifications:

Input impedance 600 MΩ

Attenuation ratio 40000-1

Max working voltage 40 kVDC

Cable length 1 m

Item	Code	EAN 13	Features
KPD 40 AM	0875831	8426487005505	Includes device, cover and manual.

NEW


KAT 276. High voltage presence detector.

- Telescopic, compact and light detector.
- The equipment should be extended to be used in high voltage detection, both in bare and insulated cables.
- For low voltage circuits (80-600 V), a finger should be placed on the features plate at the head.
- Easy to recognise the presence of voltage with a red light and buzzer.
- High protection level.

Specifications:

Voltage scale H.V. 3kV - 24 kV CA L.V. 80 V - 600 VC

Frequency 50 Hz / 60 Hz

Two different-sized models 354 mm (1005 mm extended)

Item	Code	EAN 13	Features
KAT 276	0875832	8426487005512	Includes device, hook, cover, instruction manual and batteries.

NEW


KPC XK. Pértigas multifunción para alta tensión.

- Detection and measurement of high voltage, both between phases and to ground.
- Verification of the phase sequence.
- In compliance with IEC 1243-2.
- Manufactured in glass fibre and polyurethane.
- Light, with high safety level.

Specifications:	KPC 7k	KPC 11k	KPC 22k	KPC 33k	KPC 44k
Total resistance	±3.95 MΩ	±6.78 MΩ	±13.5 MΩ	±20.1 MΩ	±27 MΩ
Grip length	765 mm	765 mm	765 mm	765 mm	765 mm
Length of the contact end	340 mm	340 mm	460 mm	610 mm	760 mm
Weight	±1,2 kg.	±1,2 kg.	±1,3 kg.	±1,4 kg.	±1,5 kg.
Operation temperature	-25°C a +5°C				
Operation humidity	20% a 96%				

Item	Code	EAN 13	Features
KPC 7k	0875837	8426487005567	Voltage syst. 6.6 kV. Complete scale: 8kV
KPC 11k	0875836	8426487005550	Voltage syst. 11 kV. Complete scale: 12kV
KPC 22k	0875835	8426487005543	Voltage syst. 22 kV. Complete scale: 24kV
KPC 33k	0875834	8426487005536	Voltage syst. 33 kV. Complete scale: 36kV
KPC 44k	0875833	8426487005529	Voltage syst. 44 kV. Complete scale: 48kV

**KT 6506. Digital thermometer.**

- Digital thermometer for use with thermo pair probe.
- With clock function (minutes, hour, day, month and year).
- Retention of data, maximum and minimum readings.
- With 16300 memory positions.
- PC-connection interface and software to download the data treatment.
- Low battery indicator.

Item	Code	EAN 13	Features
KT 6506	0875077	8426487005604	Celsius/ Fahrenheit scale. Reply time 20 sec.

**KT 6500. Digital thermometer.**

- LCD screen with 3 ½ digit display.
- Very precise and wide range of measurements (-50 °C ~ 750 °C, -58 °F ~ 1382 °F)
- 1° C / 1° F resolution
- Data retention.
- Low battery indicator.

Item	Code	EAN 13	Features
KT 6500	0875078	8426487005611	Celsius/ Fahrenheit scale. Sampling frequency: 2 times per sec. Impedance 10 MΩ

**KT 6530. Digital thermometer.**

- Double LCD display, retro illuminated screen.
- Measurements are taken without contact, by means of infrareds.
- Operation mode: medium/Max/min/ Max-min.
- Low battery indicator and auto switch-off. Automatic scale and retention of readings.
- -20 °C ~ 537 °C (-4 °F ~ 999 °F)
- 0.1 °C resolution

Item	Code	EAN 13	Features
KT 6530	0875153	8426487003020	Fahrenheit scale. Reply time 0.5 sec. Laser power < 1mw.



Digital thermohygrometers.

- Instruments designed to read temperature and relative air humidity.
- LCD display of 3 1/2 digits.
- High precision.
- 50082-1; IEC 801-4.

Item	Code	EAN 13	Features
KTH 1360	0875148	8426487751488	Temperatures from -20°C to 60°C, humidity up to 95%
KTH 6503	0875149	8426487001774	Temperatures from -20°C a 60°C, humidity up to 100%, independent probe, PC connection



Digital anemometers.

- Digital anemometers with LCD screen with 3½ retro illuminated digits
- Low battery indicator.
- Data retention function.

Item	Code	EAN 13	Features
KA 6250	0875130	8426487005727	Reading up to 1999. Sampling time 0.4 sec.
KAVM-01	0875132	8426487751327	Speeds in m/sg., knots, feet/min and hm/h.



Digital optical R.P.M. indicator with contact option.

- Digital revolution counter convertible into a contact revolution counter, by means of an optional accessory.
- 5 digits digital display.

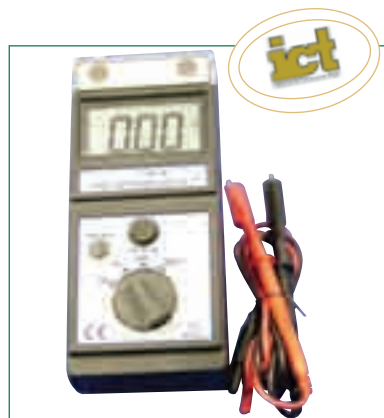
Item	Code	EAN 13	Features
KRM1500	0875122	8426487751228	10 up to 100.000 rpm, data hold, máx/mín
KRM1502	0875123	8426487751235	A contact adapter for KRM 1500
K 2234	0875155	8426487006311	5-99999 rpm. Detection distance 50-150 (Max. 300 mm)

Passive elements measurer.



- Tools designed for the measurement of resistances, inductances and capacitors, with measurement scale including almost all the passive components in the market.
- Designed in compliance with EN 50082-1 and IEC 801-4.

Item	Code	EAN 13	Features
KC 1500	0875156	8426487751563	Capacitors between 1 pF and 2 mF, high precision.
KCI 6243	0875080	8426487750801	Capacitors between 1 pF and 200 µF, inductance between 1 mH and 2 H.



KMZ 2706, audio impedance meter.

- This instrument measures impedance in audio systems, megaphones, speakers, etc.
- Continuous measurement timer
- Low battery indicator
- Measurement method: current inverter, 1 kHz.
- Measurement scales: 20/200/2 kΩ.
- Accuracy: ± 3% full scale.
- Power supply: 6 x 1.5 V IEC LR 6.
- Dimensions: 170 x 100 x 50 mm

Item	Code	EAN 13	Features
KMZ 2706	0875828	8426487758289	Includes: instrument, test probes, carrying case, batteries and instruction manual



Sound level meters.

- Two types of instruments (digital and analogue) for measuring sound levels. For use in both professional and domestic applications.
- As per EN 50082-1 and IEC 801-4 Standards.

Item	Code	EAN 13	Features
KS 1351	0875152	8426487751525	Up to 130 dB, data hold and Máx/mín./rel peaks
KS 20	0875807	8426487758074	Analogue, up to 120 dB, two sensitivity settings
KS 6701	0875154	8426487005628	Dynamic range 30-130 dB Frequency scales. Memory extendable to 128,000



LAN tester.

- Simple LAN, voice and data network tester
- Quickly and easily identifies all types of faults in unshielded twisted pair (UTP) and coaxial cables.
- Alphanumeric display that shows the type of fault, while 8 LED's indicate the tested pair: green = correct; red = fault.
- Low battery indicator. 9V alkaline battery.

Item	Code	EAN 13	Features
MINI LAN	0875081	8426487750818	INCLUDES: main unit, remote identifier. 2 30 cm long RJ-45 cables, RJ-45 female adapter, instruction manual.

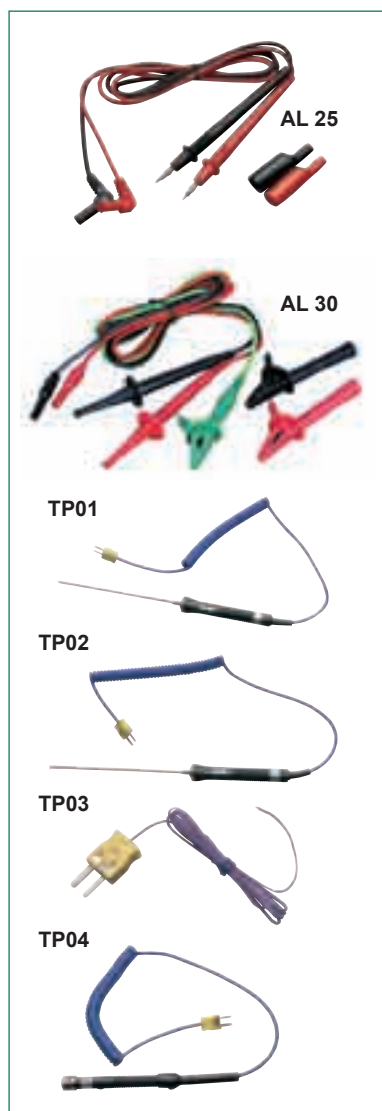
Digital luxometers.



- Instrumentos para obtener lectura digital de la intensidad de la luz de forma rápida y sencilla.
- Distintos rangos y resoluciones.
- Disponen de retención de lecturas en pantalla.
- Diseñado de acuerdo con normas EN 50082-1 e IEC 801-4.

Item	Code	EAN 13	Features
KL 1330	0875141	8426487751419	20/200/2.000/20.000 lux, resolution 0,01 lux
KL 1065	0875806	8426487758067	200/2.000/20.000 lux, output for recorder

Accessories list.



Item	Code	EAN 13	Features
Large multimeter cover	0894115	8426487941155	Green nylon cover for large multimeters KM01...KM 06
Small multimeter cover	0894116	8426487941162	Green nylon cover for small multimeters KM07 and KM 08
Funda multímetro	0875091	8426487750917	Black plastic transparent cover for multimeter
Estuche multímetro	0875092	8426487750924	Red rigid plastic case for multimeter
Funda pinza	0875090	8426487750900	Transport cover, black plastic, for pincer
ATL 3	0875877	8426487758777	scope probes, CAT III, 1,000 V, 10A
HYTL 060	0875084	8426487750849	Multimeter scope probes
HYTL 104	0875088	8426487750887	Immersion probe for thermometer
AL 25	0875824	8426487758241	Scope probes with crocodile adaptors
AL 83	0875089	8426487750894	Scope probes for multimeter series KM 83
AL 20	0875169	8426487751693	Multimeter scope probes KM
AL 40	0875170	8426487751709	Scope probes KPCM 03
AL 22	0875826	8426487758265	Scope probes for pincers KP
AL 30	0875827	8426487758272	Deluxe scope probes
TP01	0875812	8426487758128	Immersion probe for thermometer
TP02	0875813	8426487758135	Immersion-contact probe for thermometers
TP03	0875814	8426487758142	General use probe for thermometers
TP04	0875815	8426487758159	Surface probe for thermometers
CKRM 1500	0875119	8426487751198	Spare Tape for KRM 1500

Single-phase voltage quality scanner.



- Very practical and easy-to-use instrument designed to analyse the quality of voltage waves in compliance with the EN 50160 regulation.
- Simply connect the instrument to a schuko outlet and it will measure:
 - Network noise: voltage sags and peaks, interruptions and breaks, transitory overvoltages and variations in frequency
 - Periodical data scan: frequency and voltage.
- Manual and automatic adjustment of maximum parameters in compliance with EN 50160.
- Memory storage of up to 3,500 events. Connection to PC via RS 232 communication port for periodical transfer and analysis (maximum, minimum and average values) displayed in tables and graphs.
- It also performs statistical analyses of all events.
- Event recording displayed on LED.
- Visual and acoustic indication of polarity and incorrect connection.
- Operates with rechargeable batteries with included charger.

Item	Code	EAN 13	Features
KMI 2130	0874752	8426487747528	INCLUDES: instrument, connection cable with schuko plug, carry bag, software, calibration certificate and CE declaration of conformity.

Three-phase network analyzer-recorder.

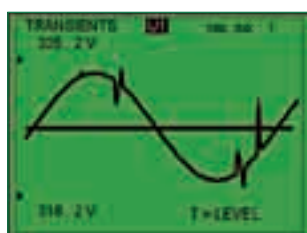


KMI 2092

KMI 2092, POWER-HARMONICS ANALYSER.

- Portable multifunction unit for a thorough measuring, recording and analysis of electric networks.
- Real-time display and storing of all the measurements necessary for the analysis of the voltage wave quality:
 - Voltage and current (rms, medium and maximum values).
 - Frequency.
 - Crest factor: U, I.
 - Phase sequence.
 - Active, reactive and apparent power.
 - Power factor.
 - Energy.
 - Harmonics up to the 63rd order.
 - Total harmonics distortion TDH factor.
- Wave form display
- 2 Mb memory, bi-directional software (updated by Internet) that allows the operation of the unit and the data and wave display directly from a PC, or else to download the data after the measurement for a subsequent statistics, table or chart analysis of the recorded data. Optional software for GSM communication.
- Power supply from the system or by rechargeable battery.
- Designed according to the EN 50160, EN 50081-1, EN 50082-1 and EN 61010-1 Standards.

Item	Code	EAN 13	Features
KMI 2092	0874807	8426487748075	INCLUDED: instrument, 3 clamps 1000 A/V, 3 test tips, 4 crocodile clips, 6 cables for voltage measurement, power cable, 6 rechargeable batteries, RS232 cable, two carry-cases, instruction manual, calibration certificate and guarantee, Windows 95/98 software.
KMI 2092/SP	0874753	8426487747535	INCLUDED: the same components, except the clamps. Please consult our accessories page at the end of this section if you wish to use other clamps. Only available by separate order.



Capture of transitory even 50 KHz (> 20 µsec)



Ultrafast capture of signals



Analysis and self-diagnosis according to EN 50160



KMI 2192, POWER QUALITY ANALYSER

- Three-phase analyser which can carry out exhaustive analysis of the quality of electric energy consumed by electrical installations
- Real-time display and storage of all the voltage wave quality test parameters.
 - Voltage and current (rms, average and maximum values).
 - Frequency.
 - Crest factor: U,I.
 - Phase sequence.
 - Active, reactive and apparent power.
 - Power factor energy, harmonics up to 63rd order.
 - THDU (total harmonic distortion of voltage) and THDI (total harmonic distortion of current) factor.
- Registry and analysis of waveforms in time domain based on half-cycle values. Ideal for:
 - Monitoring reactive compensation operations.
 - Locating and identifying noises and sources of interference.
 - Identifying sources of harmonics and differentiating absorbed harmonics and harmonics generated by the actual installation or load.
 - Solving all types of problems in capacitor batteries, transformer, and UPS etc.
- Ultra-quick signal capture, ideal for analysing engine start-up/shut-down currents, locating impedance problems, etc.
- Transitory capture up to 50 KHz (>20 µsec).
- Advanced software, which offers the possibility of creating evaluation reports in compliance with the EN 50160 regulation. Optional GSM communication software.
- Operates with rechargeable battery (included charger) or with the system's power.
- Manufactured in compliance with EN 50160, EN 50081-1, EN 50082-1 and EN 61010-1 regulations.

Item	Code	EAN 13	Features
KMI 2192	0874755	8426487747559	INCLUDES: instruments, 3 1.000 A/1V clamps, 3 test probes, 4 crocodile adapters, 6 voltage measurement cables, power cable, 6 rechargeable batteries, cable RS232, 2 carry bags, instruction manual, calibration certificate and guarantee, Windows 95/98 software.
KMI 2192/SP	0874754	8426487747542	INCLUDED: the same components, except the clamps. Please consult our accessories page at the end of this section if you wish to use other clamps. Only available by separate order.

KMI 2292, POWER QUALITY ANALYSER PLUS.

- Most advanced version available in the range which adds the following functions:
 - Interharmonic and signalling voltage analysis
 - FLICKER analysis
 - Expanded memory
 - GSM communication software.

Item	Code	EAN 13	Features
KMI 2292	0874783	8426487747832	INCLUDES: instrument, 3 1.000 A/1V clamps, 3 test probes, 4 crocodile adapters, 6 voltage measurement cables, power cable, 6 rechargeable batteries, RS232 cable, 2 carry cases, instruction manual, calibration certificate and guarantee, Windows 95/98 software.
KMI 2292/SP	0874784	8426487747849	INCLUDED: the same components, except the clamps. Please consult our accessories page at the end of this section if you wish to use other clamps. Only available by separate order.

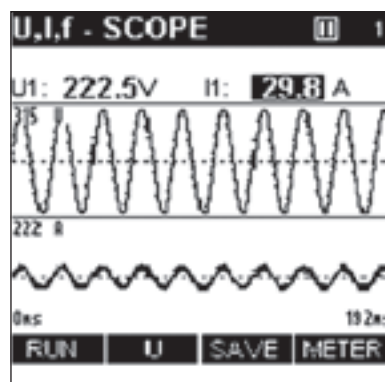
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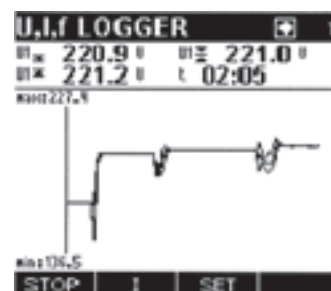
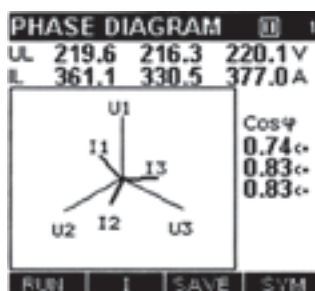
Three-phase network analyser.

KMI 2492 PowerQ, el analizador de redes trifásico diseñado para las exigencias del R.E.B.T. 2002.

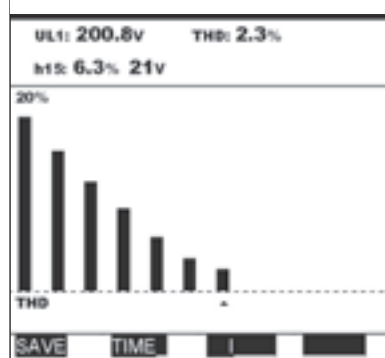
- Most basic model of the Koban three-phase network analyser range.
- Designed to comply with the basic requirements of the R.E.B.T. 2002 for basic and specialist categories.
- Ideal for wavelength quality analysis in low voltage electrical installations.
- Easy and practical handling.
- Simultaneous analysis of the basic parameters of electrical energy quality:
 - U, I, P, S, Q, FP, harmonics...
- Harmonic analysis up to 50th harmonic.
- Real time two-channel waveform display.
- Vector phase diagram.
- Voltage and current imbalance percentage indicator.
- Analysis of engine start-up.
- Registering of numerical data of all power parameters.
- Capture of voltage events (power-flickers, power-cuts, etc.).
- Software for processing and analysing data.
- Ports RS232 and USB.



Oscilloscope screen



- All the data registered can be viewed on the screen of the device. No need for a PC.
- Possibility for later study with SW PowerQLink.



Real time harmonics screen

KMI 2392 PowerQ Plus.

- Higher version to PowerQ, with the additions:
 - Analysis and reports in compliance with EN50160.
 - Field assessment on the screen of the device, of the wave quality. Very practical for users with little experience.
 - Capture and analysis of motor and transitory start-ups.



Item	Code	EAN 13	Features
KMI 2392	0874892	8426487422159	INCLUDES: device, 3 pincers 1,000 A/1V, 3 scope probes, 4 crocodile adaptors, 4 voltage pincers, software, cable RS 232, rechargeable batteries, charger, transport cover, manual in Spanish and gauging certificate.

KMI 4100 Power Monitor.



- Panel assembly network analyser, designed for the monitorisation fixed to 4 quadrants of all the power and energy basic parameters.
- Direct connection to standard transformers (x/5)
- Carries out power and energy measurements in spite of the level of harmonics present in the voltage and current, dephases between voltage and current, possible interruptions, etc.
- The Power Monitor simultaneously carries out the following measurements:
 - Voltage, current, frequency and dephase angles.
 - Powers (w, VA, Var) at 4 quadrants, including values, per phase and totals.
 - Power factors (per phase and total).
 - Active and reactive energy counter. Two tariffs.
 - Crest factors: voltage and current.
 - Harmonics. TDH and partial components up to 31° order.
- PC connection for periodical data downloading..
- 4 configurable digital inputs.
- Two auxiliary output contacts for the activation of alarms configurable by the user when exceeding the limits established.

```

U&I L1-N L2-N L3-N
U 226.2 226.2 226.2
A 4.140 4.200 4.200
Hz 49.98 L1
Uth 2.2 2.3 2.3
Ith 2.3 2.3 2.2
Ucf 1.39 1.39 1.39
Icf 1.39 1.39 1.40
  
```

Phase value screens

```

HARMONICS U1 228.1 U
th: 2.3 h1:100.0
h2: 0.1 h3: 0.0
h4: 0.0 h5: 2.1
h26: 0.0 h27: 0.0
h28: 0.0 h29: 0.0
h30: 0.0 h31: 0.0
  
```

Harmonic screens

```

POW L1-N L2-N L3-N
W 774.0 774.0 774.0
VA 942.0 948.0 942.0
Vas 540.0 540.0 534.0
Pf 0.81i 0.82i 0.82i
  
```

Power screen

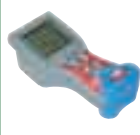
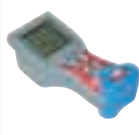
```

ENERGY
00000063.87 kWh+ tot
00000000.00 kWh- tot
00000042.81 kWh+ tot
00000000.00 kWh- tot
00000064.05 kWh+ T1
00000000.00 kWh- T1
00000042.81 kWh+ T1
00000000.00 kWh- T1
00000000.00 kWh+ T2
  
```

Energy screen

Item	Code	EAN 13	Features
KMI 4100	0880000	8426487001743	RS 485 communication by means of standard MODBUS protocol, allowing simultaneous communication between a maximum of 32 units.

Tabla resumen analizadores

NAME OF THE DEVICE	Voltscanner 50160	Power Harmonics Analyser	Power Quality Analyser	Power Quality Analyser Plus	PowerQ Plus	PowerQ Plus	Power monitor
							
Measurement parameters	KMI 2130	KMI 2092	KMI 2192	KMI 2292	KMI 2392	KMI 2492	KMI 4100
Anomalies	✓	✓	✓	✓	✓		
Gaps, microcuts, peaks	✓	✓	✓		✓		
Interruptions	✓	✓	✓	✓	✓		
Imbalances		✓	✓	✓	✓	✓	
Periodic análisis	✓	✓	✓	✓	✓		
Auto mode EN 50160	✓	✓	✓	✓	✓		
Voltaje	✓	✓	✓	✓	✓	✓	✓
Frequency	✓	✓		✓	✓	✓	✓
Power		✓	✓	✓	✓	✓	✓
Three-phase measurements		✓	✓	✓	✓	✓	✓
Complete reports according to EN 50160		✓	✓	✓	✓		
Statistics	✓	✓	✓	✓			
In-line visualization		✓	✓	✓	✓	✓	✓
Harmonics		✓		✓	✓	✓	✓
Flickers				✓			
Transients				✓			
Active, reactive and apprent power, Power factor, THD, cos ϕ		✓	✓	✓	✓	✓	✓
Energy meters and sub-meters		✓	✓		✓	✓	✓
Harmonic Analysis		✓	✓	✓			
Neutral current		Calculated	Calculated	Calculated	Calculated		Calculated
Interharmonics				✓			
Signalling voltages				✓			
Ultra-fast recorder oscilloscope				✓			
Startings				✓			
Records based on half periods							
Waveform oscilloscope to visualize the waveform		✓	✓	✓	✓	✓	
Transient oscilloscope to analyse their form and duration (<10 μseg)				✓		✓	
Ultra-fast transient recorder (>100 nseg)				✓			
General							
Autonomous battery	✓	4 h	4h	4h	4h	4h	
Incorporated charger	✓	✓	✓	✓	✓	✓	
Flexible clamp output		✓		✓	✓		
Selectable language	✓	✓		✓	✓	✓	✓
Protection category	CAT III 300 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	
Memory	32 K/3500 events	2 M	2048 kbyte	2 M	512 kbyte	512 kbyte	42 days
Back-light screen		160x116	160x116	160x116	✓	✓	
Software		✓	✓	✓	✓	✓	✓
Actualizable by Internet		✓		✓			

Structured cabling tester.



KMS 2004

KMI 2014, CABLE SCANNER.

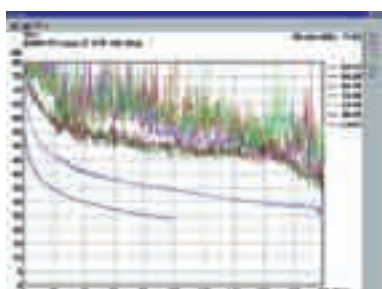
- Professional kit with which you can carry out quick and easy analyses of the cabling of LAN installations and other types of cables.
- Suitable for twisted and coaxial cables.
- Two types of tests: SIMPLE AND COMPLETE which offer the following functions:
 - Length (total length of the cable and of each individual pair).
 - Detection of breaks in the cable or connectors, indicating the distance of these breaks.
 - Short circuits between cables or cables and screens, indicating the distance.
 - Detection of crossed, reversed, transposed and incorrectly intertwined cables.
 - Identification of unknown cables (#1-#15).
- Option of tracing hidden cables with KMA 1082 accessory (optional).
- Simple tracers that directly identify up to 28 cables.
- Optional KMS 2004 remote kit with 2 headsets and microphone that enables intercommunication between operators at both ends of the connection.
- Operates with alkaline or rechargeable batteries.
- Autocalibration test.

Item	Code	EAN 13	Features
KMI 2014	0874751	8426487747511	INCLUDES: Instrument, 2 CAT 5 patch cables, standard remote unit #1, locator set (#1-#4), instruction manual, declaration of CE conformity, calibration certificate.
KMS 2004	0874770	8426487747702	Remote communication unit + 2 headsets and microphones. Required for COMPLETE test.
KMA 1082	0874769	8426487747696	Hidden cable tracer.

Telecommunication network analyzer-tester.

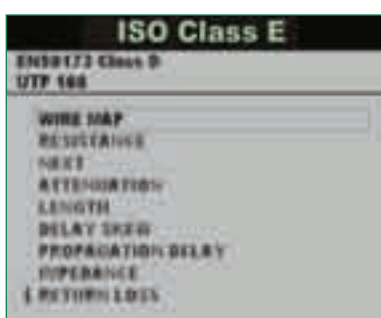
MULTI LAN 200

- Designed to carry out the analysis and tests on LAN installations up to 200 MHz.
- It performs all the tests in installation category 5 cables, according to the TSB-67 Standard, for all kind of cables: UTP, STP, ScTP, FTP and coaxial: Wiring system drawing, resistance, length, attenuation, adjacent pairs coupling (NEXT), ACR factor (Coupling - attenuation), return loss, impedance, propagation time, pair propagation differences (DELAY SKEW).
- AUTOTEST mode to carry out the tests automatically.
- Autotest PASS/FAIL, according to the limits established in the regulation relevant to each case.
- Powerful fault detection tools in TDR and TDNEXT reflectometers.

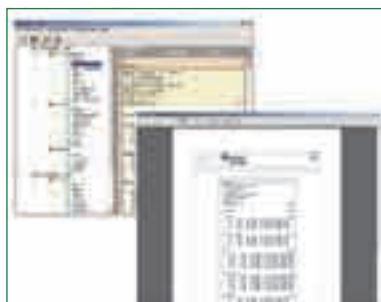


Item	Code	EAN 13	Features
KMI 2012-ST	0874813	8426487748136	Included: MULTI LAN 200, receiver, 2 5m cables, Cat 5, detectors number 1 - 4, software and RS 232 cable, carrying case, instructions, calibration, conformity and guarantee certificates.
KMI 2012-PS	0874814	8426487748143	Included: As standard unit, replacing the receiver for a second MULTI LAN 200, necessary for the remote coupling test
KMA 1041	0874843	8426487748433	kit of 2 earphones with microphone
KMA 1043	0874844	8426487748440	kit of detectors II, number #5 - #16
KMA 1044	0874845	8426487748457	kit of detectors III, number #17 - #28

Structured cabling analyser-certifier.



Remote unit



Software LANLink-Plus. Three level informs in a few minutes.

MULTILAN 350

This instrument analyses and certifies high-performance LAN installations, up to 350 MHz (100 MHz more than the standard).

- Designed in compliance with TIA/EIA 568B, CAT 6, ISO 11801 Class E and EN 50173 Class C, D and E specifications.
- Compatible with all types of cables and configurations available on the market.
- Quick AUTOTEST function that provides PASS/FAIL results: complete test in only 40 secs.
- Extremely high-quality components, accessories and connectivity adapters.

Easy to use:

- Large high-resolution LCD display.
- Help screens.
- Communication kit.
- Preset measurement methods and maximum values.
- User-selectable multilevel results.
- RS232 series and USB ports for data transfer.

Powerful faultfinding tools (TDR and TD NEXT)

- Inbuilt time domain reflectometer
- Quick identification of cables by means of tracers
- Frequency result graphs
- Cabling map for remote units

LANLink-Plus software package.

- Measurement result documentation.
- Certificates and reports on the installation analysis available at three different levels.
- Analysis of time-domain and frequency graphs.

Basic measurement tests:

NEXT	Return loss	Length
NEXT remote	Remote return loss	Propagation time
PSNEXT	ACR	Delay Skew
PSNEXT remote	Remote ACR	Impedance
ELFEXT	PSACR	DC resistance
PSELFEXT	Remote PSACR	Cable map
Attenuation		

Item	Code	EAN 13	Features
KMI 2016-ST	0874872	8426487748723	INCLUDES: instrument. Remote unit, 2 permanent connecting adapters, 2 channel connecting adapters, attenuation calibration module, power supply/adaptor, 2 headsets/microphones, 12 LR14 rechargeable NiMH batteries, tracer kit #1-4, software LANLink-Plus + RS 232 cable, 2 carry bags, instruction manual and calibration certificate
KMI 2016-PS	0874873	8426487748730	INCLUDES: the same as in the ST kit, but contains two instruments and no remote unit. You can simultaneously carry out close and remote tests.
KMA 1043	0874844	8426487748440	Tracer Kit (#5, #6)
KMA 1044	0874845	8426487748457	Tracer Kit (#17, #28)

NEW

**KMI 5100. OPTOLAN.**

- Equipment for the verification and certification of optic fibre cables for all wave lengths used.
- Valid for multimode fibre of 50 μm and 62.5 μm .
- It can be optionally extendable to single mode fibre.
- Possibility of carrying out the measurement depending method A or method B, both in compliance with the regulations.
- Insertion losses test in optic fibre cables, connectors and joints.
- Measurement of the optic power taking into account different sources of light, finding defects and resolving problems.

The new features of the OPTOLAN KMI 5100 comply with the standard methods for the optic power test and insertion losses of optic fibre cables in LAN networks.

Additionally, the following accessories are available:

- Optic light source LS 420 SM of 1310 nm and 1550 nm, both for single mode type fibre.
- High precision light source for the verification of contact surfaces on connectors.
- Optic fibre coils normalised to select stability and precision on the test results.



Item	Code	EAN 13	Features
KMI 5100-ST	0874905	8426487004850	INCLUDES: optic power measurer PM420 Optic light source LS 420 Laser pen of 650 nm Patch connectors with terminal PC/FC, SC, ST.
KMI 5100-PRO	0874906	8426487004867	INCLUDES the same as the standard as well as an adaptor added which is equivalent to an infrared communication port with MultiLAN 350 KMI 2016, which generates the certification report.

The typical applications are the following:

- Measurement of the loss of insertion for all types of multi-mode optic fibre cables.
- Measurement of the loss of insertion for all types of single mode optic fibre cables.
- Measurement of the optic power of the different LED or laser sources, converters, etc.
- Tests of LAN fibre cables, CATV fibre cables, multimedia cable links, etc.

NEW



KMI 6201 MULTINORM.

- Instrument for the measurement of the temperature and air speed, relative humidity, illumination, luminance and noise.
- Two types of probes: Class 1, fully digital; Class 2 with 2 independent measuring channels.
- Additionally, it also measures the contrast, globe temperature and thermo pair (contact temperature) and indexes measuring the work comfort.
- LabLink Software with RS 232 communication cable for PC.
- Designed in compliance with: IEC 61672, IEC 61260.

Item	Code	EAN 13	Features
KMI 6201-ST	0874911	8426487006243	Includes: device, adaptor, universal probe, lighting probe, class 2 probe for noise measurement, plastic cover, case, software, 6 batteries, adaptor for batteries, tripod and manual
KMI 6201-EU	0874910	8426487006236	Includes: device, adaptor, universal probe, lighting probe, class 2 probe for noise measurement, plastic cover, case, software, 6 batteries, adaptor for batteries, tripod, manual and ISO system full gauging certificate.
KMI 6201-PRO	0874909	8426487006229	Includes: device, adaptor, universal probe, lighting probe, class 1 probe for noise measurement, plastic cover, case, software, 6 batteries, adaptor for batteries, tripod, manual and ISO system full gauging certificate.

NEW



KMI 6401. POLY.

- Device measuring air temperature and speed, relative humidity, lighting and luminance.
- Additional measurements: globe temperature and thermo pair (contact temperature), apart from the indexes measuring work comfort.
- SensorLink Pro Software for PC with RS 232 communication cable for register, analysis and documentation of the data obtained.

Item	Code	EAN 13	Features
KMI 6401-ST	0874915	8426487006281	Includes: device, adaptor, universal probe, lighting probe type B, transport bag, software, adaptor for batteries, 6 batteries, tripod, instructions manual and declaration of conformity.
KMI 6401-EU	0874914	8426487006274	Includes: device, adaptor, universal probe, lighting probe type B, transport bag, software, adaptor for batteries, 6 batteries, tripod, instructions manual, declaration of conformity and ISO system full gauging certificate

NEW

**KMI 6301 FONS.**

- PRO Device, class 1, fully digitalised or EURO device, class 2, with 2 independent measurement channels.
- Each channel can be adjusted to different times and frequencies.
- SoundLink Software, to download, visualise and export data registered.

Item	Code	EAN 13	Features
KMI 6301-PRO	0874912	8426487006250	Includes: device, noise probe class 1, transport case, SoundLink Lite software with RS 232 cable, adaptor for batteries, 6 batteries, tripod, manual, declaration of conformity and ISO system full gauging certificate
KMI 6301-EU	0874913	8426487006267	Includes: device, noise probe class 2, transport case, SoundLink Lite software with RS 232 cable, adaptor for batteries, 6 batteries, tripod, manual, declaration of conformity and ISO system full gauging certificate

NEW

**KMI 6100, microclimate parameters measurer.****MULTISENSOR**

- Multifunctional equipment to carry out the analysis, measuring and recording of the microclimatic conditions, using different probes.
- Indication of all the values in a simultaneous way, on the same screen.
- Luxmeter function, with two types of probe.
 - Type B: resolution 0.01 Lux.
 - Type C: resolution 0.1 Lux.
- Thermometer function.
- Anemometer function (air speed and temperature) and thermo hygrometer, with one probe.
- All the probes are connectable simultaneously.
- 512 kB memory.
- Software for data downloading.

Item	Code	EAN 13	Features
KMI 6100	0874785	8426487747856	Includes: device, macroclimatic probe, Lux type C probe (resolution 0.1 Lux), transport case, manual, gauging certificate.

NEW



KMI 3104. Operating theatres insulation monitoring system verifier.

An IT is a supply system with insulated earth connection. It is used in areas where high protection against electric shocks is required, as in operating theatres and data centres.

The IT systems represent a higher protection level against electric shocks than the TN/TT systems. In the event of failure in any protection circuit insulation, it becomes a TN system. Nevertheless, another failure would be disastrous, so the insulation should be monitored continuously, and should be immediately repaired after the detection of any failure.

The IT systems usually include an insulation monitoring system, so the function of the KMI 3104 is to verify the same and the supply system itself.

It is a completely passive device, battery-free. To be used it only requires external measurement equipment (such as a multimeter or digital ammeter pincer).



Item	Code	EAN 13	Features
KMI 3104	0874878	8426487002504	Includes: KMI 3104, transport case and manual in Spanish.

NEW



KMI 3100 Eurotest BASIC.

KMI 3100-Eurotest BASIC

The simplest equipment of the range. It measures the following:

- Insulation resistance. Test voltage: 100 V, 250 V, 500 V, 1000 V.
- Protection system continuity. Test current ± 200 mA, automatic inversion of polarity.
- Uninterrupted continuity test, test current 7 mA.
- Defect buckle resistance.
- Line resistance.
- Circuit breaker test: contact voltage, trip current, trip time.
- Phase sequence.
- Voltage and frequency.
- Manufactured in compliance with EN 61557: 1, 2, 3, 4 and 6.

Item	Code	EAN 13	Features
KMI 3100	0874903	8426487004836	Includes: device, universal cable, schuko cable, 3 scope probes, 3 crocodiles, 6 rechargeable batteries +feeder, manual in Spanish, transport case.

NEW



KMI 3102 Eurotest REBT.

- Equipment designed to completely comply with the REBT 2002 requirements.
- In combination with the most suitable network analyser, the Eurotest REBT carries out all the necessary measurements for the specialist category.
- Includes the operating theatre insulation monitoring system verification function, valid for the inspection of any IT system.
- Eurotest REBT auto-diagnoses all the functions carried out. Before measuring, it advises the user if it is ready to carry it out, or if there is any situation that needs to be adjusted.
- At the same time, it informs the user of possible dangerous connections (L-PE) in the installation.
- Functions carried out with the Eurotest REBT:
 - Earth resistance measurement with/without earth rods.
 - Measurement of the insulation resistance, test voltage: 100 V, 250 V, 500 V and 1000 VCC.
 - Protection circuit continuity measurement. Test current: ± 200 mA, Automatic inversion of polarity.
 - Uninterrupted continuity test, with current of 7 mA.
 - Defect buckle resistance, without tripping of circuit breaker (TRIP-LOCK system even for 10 mA circuit breakers), with indication of the possible current of the short-circuit.
 - Line and current resistance of the short-circuit.
 - Circuit breaker test: contact voltage, trip times and currents, automatic test.
 - Loss current and load current.
 - Illumination.
 - Insulation monitoring system test in operating theatre.
- In the buckle resistance and line resistance measurements, the Eurotest REBT assesses the possible tripping of the protection fuse/magnetothermal in the event of short-circuit.
- Power supply with rechargeable batteries, included.
- Double port (RS 232 and USB) for PC communication.
- Manufactured in compliance with EN 61557: 1, 2, 3, 4, 5, 6 and 7.

Optionally, the following accessories are available:

- Scope probe commander with two functions.
- Prong commander.
- Three-phase cable.
- Three-phase adaptor.
- Test probe-black.
- Measuring Pincer (professional, low current range).
- Ammeter minipincer.
- Mini-pincer connection scope probes.
- Luxmeter type B probe.
- Luxmeter type C probe.
- 12 batteries type AA charger.
- 6 batteries type AA charger.

Item	Code	EAN 13	Features
KMI 3102	0874904	8426487004843	INCLUDES: test cable with schuko plug, universal test cable (blue, black and green), 3 crocodiles, transport belt, Transport bag, , EurolinkREBT software, two cables (RS 232, USB), 6 rechargeable batteries and feeder.

KMI 3105 Eurotest PRO.

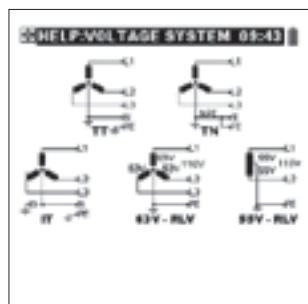


NEW

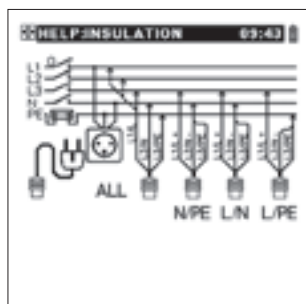
► EN 61557 ► 600 V CAT III

Dimensions 230 x 103 x 115 mm.

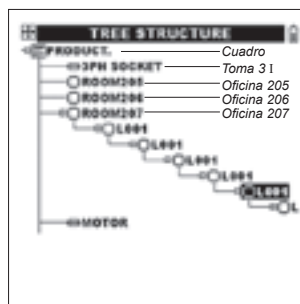
- The EurotestPRO is the most advanced multi-functional installations verifier at the moment. It is latest generation equipment, including improvements on previous equipment, with a very high efficiency, precision and reliability level.
- Apart from this level of performance, the main characteristic of the EurotestPRO is its easy-to-use nature. It is a highly professional device, designed for the higher level of requirements, but at the same time it can be used by any user, even with little experience in the electricity inspection field.
- EurotestPRO is the only verifier in its field without a function turning selector. It can be used with one hand and has few function keys.
- With an 80 x 60 mm screen, in which all the configuration and measurement parameters can be seen simultaneously. No need to navigate through the configuration menus. Everything is controlled from a sole screen. This is subdivided into windows, similar to the Windows system in a PC.
- With management software with bidirectional communication between the device and the PC.
- The user can design the structure of each installation, plan measurements, assign structures to a predetermined auto sequence, etc.
- EurotestPRO is the only equipment of its type with different AUTOTESTs for the carrying out of different inspection and certification tests by only pressing a button. The results of the tests are saved in the memory, in an automatic way also.
- The user can also edit said auto sequences including pauses, messages, instructions, etc. The device includes a virtual keyboard for this purpose.



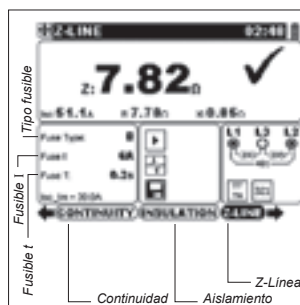
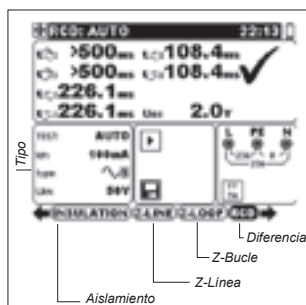
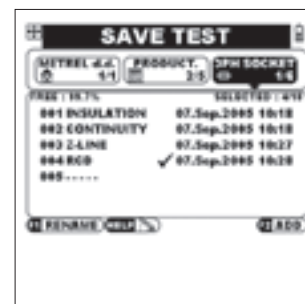
Help: Supply systems.



Help: insulation.



Installation structure.



Item	Code	EAN 13	Features
KMI 3105-ST	0874933	8426487430093	(*) INCLUDES: device, universal connection cable, schuko connector, feeder 230 V, 6 rechargeable batteries, 3 scope probes, 3 crocodiles, transport case, holding belt, USB cable, software, manuals in paper and CD.
KMI 3105-PS	0874934	8426487430109	Adds version "PRO" of the software and current measurement pincer.

Multifunction tester.



INSTALTEST 61557

- Unit designed for the thorough safety parameters testing in installations, as per the EN 61557 Standards.
- Of easy use and easy adjustment of functions, it helps to carry out the necessary measuring in very little time, as well as the downloading of data in your PC and certificate printing.
- Recording of transient variations of voltage
- High transient resistance thanks to its exclusive in-current protection.

INSTALTEST FUNCTIONS:

- Insulating resistance Ri, 0-1.000 MΩ, 50-1.000 V.
- Continuity of protection wires, current +/- 200 mA cc.
- Continuity Rx, current < 7 mA cc (continuous test)
- Loop resistance RL-PE. Maximum current 2,5 A.
- Possible short-circuit current (line) Ipcc.
- Voltage UL-N. Detection of wires, faults, fuses (optional accessory KMA 1005).
- Phase sequence.
- RCD: Contact voltage UC (without RCD trigger).
- RCD: Loop resistance RL (without RCD trigger)
- RCD: Triggering time $t_{\Delta N}$: 0,5 $I_{\Delta N}$; $I_{\Delta N}$: 2 $I_{\Delta N}$ and 5 $I_{\Delta N}$.
- RCD: Triggering current $I_{\Delta N}$, from 0,2 to 1,1 $I_{\Delta N}$.
- RCD: Automatic tests (contact voltage and triggering times).
- Protection devices through varistor: Break voltage Ub.
- Voltage recorder UL-N.



KMI 2087



KMA 1002



KMA 1005



KMA 1119

Item	Code	EAN 13	Features
KMI 2087-ST	0874802	8426487748020	INCLUDED: INSTALTEST 61557, universal test cable 3x1.5m., blue and black testing tips, crocodile clip, schuko adapter with test switch, RS 232 cable, software "Install link", carrying case, instructions, calibration, conformity and guarantee certificate.
KMA 1002	0874819	8426487748198	Tip commander 1,5 m.
KMA 1005	0874820	8426487748204	Wire detection receiver.
KMA 1110	0874824	8426487748242	Three-phase cable.
KMA 1111	0874825	8426487748259	Three-phase cable adapter.
KMA 1119	0874875	8426487748754	Luxmeter probe type C
KMA 1102	0874876	8426487748761	Luxmeter probe type B



KMA 1111



KMA 1110

Multifunction tester.



EUROTEST 61557

- The most powerful multifunction unit in the range. Besides offering all the safety testing functions for low voltage installations, it offers a new version of bi-directional software (updated in Internet) which makes possible to swap information from the unit to a PC. The installation structure is thus designed in the PC, this structure is transferred to the EUROTEST and then the resulting data is transferred back to the PC.
- Help menu screen that show connection diagrams for each function.
- Of easy use and easy adjustment of functions, it helps to carry out the necessary measurements in very little time, as well as the downloading of data in your PC and certificate printing.
- High transient resistance thanks to its exclusive in-current protection.

EUROTEST FUNCTIONS:

- Insulating resistance R_i , 0-1.000 M Ω , 50-1.000 V.
- Protection duct continuity, current $\pm$ 200 mA DC.
- Continuity of protection wires R_x , current < 7 mA DC. (continuous test).
- Loop resistance without tripping the circuit breaker (current < 15 m A).
- Loop impedance R_L -PE. Maximum current 2.5 A
- Line impedance.
- Possible short-circuit current (line) I_{pcc} .
- Voltage U_L -N.
- Frequency
- Earth resistance with/without rods, with clamps or without any accessory.
- Ground resistivity.
- Detection of wires, faults, fuses, short-circuits and switches.
- Phase sequence.
- RCD: Contact voltage U_C (without RCD trigger)
- RCD: Loop resistance R_L (without RCD trigger)
- RCD: Triggering time $t_{\Delta N}$; $0,5 I_{\Delta N}$; $I_{\Delta N}$; $2 I_{\Delta N}$ and $5 I_{\Delta N}$.
- RCD: Triggering current $I_{\Delta N}$, from 0,2 to 1,1 $I_{\Delta N}$.
- RCD: Automatic tests (contact voltage and triggering times).
- Protection devices through varistor: Break voltage U_b .
- Current (0 - 200A). Peak current and leak current TRMS.
- Single-phase power, energy analyzer-tester. (W, VA, V_{Ar} , $\cos \phi$, Kwh).
- Harmonic-wave analyzer (U, I) up to the 21 grade



KMI 2086-ST

Standard software version



KMI 2086-EU

Advanced software

Item	Code	EAN 13	Features
KMI 2086-ST	0874800	8426487748006	EUROTEST 61557, universal test cable 3x1.5m., blue and black testing tips, crocodile clip, schuko adapter with test switch, RS 232 cable, software "Euro Link-Lite", carrying case, bandoleer, instructions, calibration, conformity and guarantee certificate.
KMI 2086-EU	0874801	8426487748013	EUROTEST 61557, universal test cable 3x1.5m., blue and black testing tips, kit of earthing cables 20m., crocodile clip, schuko adapter with test switch, KMA 1018 clamp, KMA 1005 receiver, RS 232 cable, software "Euro Link-Pro", carrying case, bandoleer, instructions, calibration, conformity and guarantee certificate.
KMS 2002	0874862	8426487748624	Kit of earthing cables 50 m.
KMA 1019	0874821	8426487748211	10 mA - 200 A clamp
KMA 1110	0874824	8426487748242	Three-phase cable.
KMA 1111	0874825	8426487748259	Three-phase cable adapter.
KMA 1119	0874875	8426487748754	Luxmeter probe type C
KMA 1102	0874876	8426487748761	Luxmeter probe type B

Earth resistance, insulation and continuity meter.



EARTH - INSULATION TESTER

- Highly professional unit used to test earth and insulation, with a wide number of proceedings.
 - Earthing resistance, with two rods, in combination with one or two clamps, or without rods but with two clamps (KMA 1018 y KMA 1019, optionals).
 - Ground resistivity (four rods)
 - Insulating resistances, up to 30 GΩ with testing voltages between 50 y 1000 V cc, which can be chosen in 10V spacing.
- Protection conductor continuity, with a testing current over 200 mA and automatic polarity reversal.
- Continuity in continuous tests for quick continuity checks in varied applications, testing current under 7 mA.
- Voltages measuring both alternating and continuous from 0 to 600 V.
- Current measurement (rms) from 0 to 200 A (with optional KMA 1018/1019 clamps) Leakage current.
- Checking of protection devices against overvoltage with varistor.
- Designed according to the EN 61557, EN 61010-1, EN 50081-1, EN 50081-1, VDE 0100, VDE 0413, BS 7671, CEI 64.8 and HD 384 Standards.

Item	Code	EAN 13	Features
KMI 2088	0874804	8426487748044	Insulating kit, without earth cables/rods.
KMI 2088-20	0874805	8426487748051	Unit. Kit of earth cables with 4 rods 20m., testing tips 1.5 m. Crocodile clips. Carrying case. Software "Earth Link" with a RS 232 cable. Instructions. Calibration and guarantee certificates.
KMI 2088-50	0874806	8426487748068	The same equipment as the previous one, with a kit of earth cables of 50 m.
KMA 1018	0874822	8426487748228	0.5 mA-200A clamp, current meas.
KMA 1019	0874821	8426487748211	10 mA-200A clamp, earth meas.

Earth resistance and resistivity meter.



KMI 2124

- Last generation, top-quality instrument that carries out the following functions:
- Earth resistance, various methods:
 - With rods (2, 3 or 4 connections).
 - Partial resistance of each rod in the installation with clamp (KMA 1018, optional), without influencing the other parallel rods and without having to disconnect the rod from the installation.
 - Using two clamps, (KMA 1018 and KMA 1019, optional) without need to install rods or disconnect electrodes. Ideal for use in urban areas.
- Specific earth resistance (ρ)
- True-RMS Current, for identifying earthing and conductor problems (with KMA 1018, clamp). Leakage currents.
- Extremely sensible and accurate, even with interference.
- Incorrect test condition error messages and out-of-limit results displayed on screen.
- 1.000 memory positions that can be transferred to PC.

Item	Code	EAN 13	Features
KMI 2124	0874750	8426487747504	INCLUDES: Instrument. 20 m earth kit. Instruction manual. Calibration certificate and CE conformity.
KMA 1018	0874822	8426487748228	Connection cable.
KMS 2009	0874773	8426487747733	0.5 mA-200 A clamp, current meas.
KMA 1019	0874821	8426487748211	10 mA-200 A clamp, earth meas.
KMA 1020	0874828	8426487748280	Carry bag.
KMA 1050	0874830	8426487748303	"Smart Link" software with interface.

NEW



Earth tester

KMI 2125, Earth Tester.

- Smaller version of the previous model.
- Same technology, applied only to earth resistance testing with or without grounding rods, connected to the installation neutral.
- Very high sensitivity and precision, even in the presence of interference.
- On-screen warning of incorrect test conditions and results outside the limit.
- 1,000 memory positions for later dumping to PC.

Item	Code	EAN 13	Features
KMI 2125	0874874	8426487002498	INCLUDES: instrument, 20 m ground kit, instruction manual, calibration certificate
KMA 1020	0874828	8426487748280	Carry-case.
KMA 1050	0874830	8426487748303	"Smart Link" software with interface.

NEW



Insulation / continuity tester.

KMI 3103, Gigaohm 1kV.

- Basic version of the insulation tester.
- High quality and precision.
- 3 test voltages: 250, 500 or 1,000 VDC.
- Measurement range up to 2 GΩ.

Item	Code	EAN 13	Features
KMI 3103	0874893	8426487002528	INCLUDES: instrument, test points, test cables, instructions manual.

Continuity and insulation resistance meter.



KMI 2123

- Five testing voltages, 50, 100, 250, 500 and 1,000 V. DC.
- Wide measuring scale up to 20 GΩ.
- Automatic discharge of the tested item.
- Automatic measurement of continuity (200 mA) in both polarities.
- Automatic removal of the resistance in testing tips (up to 5Ω) for a more accurate measurement.
- Voltage and frequency measurement.
- Voltage detection alarm and protection against this voltage.

Item	Code	EAN 13	Features
KMI 2123	0874818	8426487748181	Includes: unit, measuring cable 1.5 m., universal test cable 3x1.5m., testing tips and crocodile clip (1 item). Instructions manual. Calibration, conformity and guarantee certificate.
KMA 1020	0874828	8426487748280	Carrying case.
KMA 1050	0874830	8426487748303	Software "Smart Link" with interface.



KMA 1111

The three-phase KMA 1111 adapter allows you to select all possible combinations with just one connection between the active parts of the installation by simply turning the selector. It can be used in insulation, loop/line impedance and phase sequence measurements, 4-pole RCD testing, etc.

Loop/line impedance, short-circuit current meter.

KMI 2122

- Quick and accurate measuring of loop/line impedance with a high charging current (25 A).
- Measurement of earth and loop resistance without RCD trigger (15 mA current).
- Measurement of three-phase-system phase impedance, 40 A charging current (with the optional adapter KMA 1111, the desired phase may be selected easily).
- Display of the phase sequence in three-phase systems.
- Measurement of voltage UL-N, UL-L and VL-PE



Item	Code	EAN 13	Features
KMI 2122	0874817	8426487748174	INCLUDES: unit, measuring cable 1.5 m., universal test cable 3x1.5m., testing tips and crocodile clip (3 items). Instruction manual. Calibration, conformity and guarantee certificate.
KMA 1020	0874828	8426487748280	Carrying case.
KMA 1050	0874830	8426487748303	Software "Smart Link" with interface.
KMA 1110	0874824	8426487748242	Three-phase cable.
KMA 1111	0874825	8426487748259	Three-phase cable adapter.

RCD, loop, line and short circuit current Ipcc tester.



KMI 2120

- Quick RCD test (10, 30, 100, 300 and 500 mA) both standard and selective types both AC and A:
 1. Triggering current (gradient test).
 2. Triggering time (0, 5 $I_{\Delta N}$, $I_{\Delta N}$, 2 $I_{\Delta N}$ and 5 $I_{\Delta N}$), according to regulations.
- Phase angle selection from 0° to 180°.
- Contact voltage measurement to ensure a good connection of the equipotential protection conductors, as well as a good earth resistance.
- Quick and accurate measurement of the loop and line resistance (with or without RCD trigger).
- Measurement of the possible short-circuit current Ipcc.
- Measurement of the impedance between two phases in three-phase systems.

Item	Code	EAN 13	Features
KMI 2120	0874815	8426487748150	INCLUDES: unit, measuring cable 1.5 m., universal test cable 3x1.5m., testing tips and crocodile clip (2 items). Instruction manual. Calibration, conformity and guarantee certificate.
KMA 1020	0874828	8426487748280	Carrying case.
KMA 1050	0874830	8426487748303	Software "smart link" with interface.
KMA 1110	0874824	8426487748242	Three-phase cable.
KMA 1111	0874825	8426487748259	Three-phase cable adapter.

RCD tester



KMI 2121

- Quick RCD test (10, 30, 100, 300 and 500 mA) both standard and selective types both AC and A:
 1. Triggering current (gradient test).
 2. Triggering time (0, 5 $I_{\Delta N}$, $I_{\Delta N}$, 2 $I_{\Delta N}$ y 5 $I_{\Delta N}$), according to regulations.
- Phase angle selection from 0° to 180°.
- Contact voltage measurement to ensure a good connection of the equipotential protection conductors, as well as a good earth resistance.
- Measurement of line, neutral and earthing voltage.
- Measurement of earth and loop resistance without causing RCD trigger.

Item	Code	EAN 13	Features
KMI 2121	0874816	8426487748167	INCLUDES: unit, measuring cable 1.5 m. instruction manual. Calibration, conformity and guarantee certificate.
KMA 1020	0874828	8426487748280	Carrying case.
KMA 1050	0874830	8426487748303	Software "Smart Link" with interface.
KMA 1011	0874837	8426487748372	Universal test cable 3 x 1,5 m.

Cable indentifier-tracer.



LINE TRACER

- Transmitter-receiver kit designed to detect wall-inserted conductor lines, as well as the identification of cables in different places of the installation.
- Identification of fuses and protection devices in the panel with respect to an electric socket or to a specific point in the installation.
- Detection of cuts and open connections, as well as short-circuits in hidden points of the installation.
- Detection and tracing of wall-inserted metallic pipes (water, heating...)
- It operates on powered systems as well as in systems without voltage.
- It is useful also in telecommunication networks, local networks, etc.
- Two different operation modes which can be selected by a normal or automatic way: CAPACITIVE MODE (transmitter working as voltage generator) and INDUCTIVE MODE (transmitter working as a current generator). The transmitter may also act as a load.
- The sensibility of the receiver may be increased using the KMA 1069 clamp (optional). Similarly, the current injection with an inductive mode can be done using the KMA 1019 (optional).

Item	Code	EAN 13	Features
KMI 2093	0874812	8426487748129	Transmitter T10K. Receiver R10K. Kit of testing tips and crocodile clips. Carrying case. Instruction manual. Calibration, conformity and guarantee certificate.
KMA 1019	0874821	8426487748211	1A – 1000A, d=52mm. clamp
KMA 1074	0874883	8426487748839	0,2A – 200A, d=15mm. clamp
KMA 1067	0874846	8426487748464	Testing cable with resistor.
KMA 1068	0874848	8426487748488	Connection cable for clamps.

Electric installation tester.



INSTALCHECK

- With this new instrument, one can check out the state of the low voltage electric installation in a few seconds and without displaying any reading.
- It is connected to the installation through any schuko electric point. With a previous adjustment of the RCD type (if there is any) and just pressing a button, the Instalcheck unit automatically carries out the checking of the following parameters:
 - Line resistance.
 - Loop resistance
 - Contact voltage Uc.
 - It causes a RCD triggering, measuring the triggering time.
 - Once there is no voltage, it measures the insulating resistance.
- The Instalcheck unit checks the results up on the limits established in each case by the corresponding regulation, and it gives a report of the state of the installation: an "OK" if everything is correct, or else, it lights up the LED display that corresponds to the result it finds out of the limits.
- The Instalcheck unit allows one to carry out continuity measuring.
- It previously indicates in the LED display that the connection is correct, or that there is a possible inversion phase/neutral.

Item	Code	EAN 13	Features
KMI 2150	0874803	8426487748037	Unit. Schuko adapter. Kit of testing tips. Instruction manual. Calibration, conformity and guarantee certificate. Universal testing cable.
KMA 1112	0874858	8426487748587	Safe testing tip.
KMA 1020	0874828	8426487748280	Carrying case.
KMA 1111	0874825	8426487748259	Three-phase cable adapter.

Tabla resumen comprobadores.

MEASURING PARAMETER	REF. ORDER	KMI 3100	KMI 3102	KMI 3103	KMI 2087-ST	KMI 2086-ST	KMI 2086-EU	KMI 2088-20	KMI 2120	KMI 2121	KMI 2122	KMI 2123	KMI 2124	KMI 2125	KMI 2093	KMI 2150
INSULATION	Insulation Resistance Testing Voltages 50 to 1000 Vdc	✓	✓	✓	✓	✓	✓	✓				✓				* 500 V
CONTINUITY	Protection conductors continuity Automatic Polarity Inversion. Testing Current > 200 mA	✓	✓	✓	✓	✓	✓	✓				✓				
	Continuity (low resistance). Continuous Testing Without Polarity Inversion. Low Testing Currents	✓	✓	✓	✓	✓	✓	✓				✓				✓
LINE / LOOP	Line Impedance / Ipdc L-L, L-N, current up to 40 A					✓	✓				✓					
	Loop Impedance / Ipdc L-PE, current up to 25 A					✓	✓				✓					
	Contact Voltage at Ipc method with auxiliary pike	✓	✓			✓	✓									
	Line Resistance / Ipdc L-N	✓	✓		✓				✓							✓
	Loop Resistance //Ipcc L-PE	✓			✓				✓							✓
	Loop Resistance L-PE, N-PE Without causing RCD jumping		✓			✓	✓		✓		✓					
DIFFERENTIALS (RCD)	Contact Voltage. Testing current IΔN/2, without RCD jumping		✓		✓	✓	✓		✓	✓						✓
	Loop Resistance. Testing current IΔN/2, without RCD jumping		✓		✓	✓	✓		✓	✓						✓
	Earth Resistance, with auxiliary pike. Testing current IΔN/2, without RCD jumping		✓			✓	✓									
	Trip-out time , 0,5 IΔN, IΔN, 5 IΔN	✓	✓		✓	✓	✓		✓	✓						* I Δ N
	Trip-out current , prueba trampa	✓	✓		✓	✓	✓		✓	✓						IΔN=30mA
	Automatic RCD Testing		✓		✓	✓	✓									
EARTH RESISTANCE	Total Earth Resistance. Method 4 connections, 2 auxiliary pikes		✓			✓	✓	✓					✓	✓		
	Partial Earth Resistance. Method with 2 auxiliary pikes and 1 clamp					✓	✓	✓					✓			
	Earth Resistance. method with 2 clamps					✓	✓	✓					✓			
	Specific Earth Resistance. Method 4 connections, 4 auxiliary pikes					✓	✓	✓					✓			
HARMONICS POWER	Voltage and Current Harmonics					✓	✓									
	Power: W, VA, Var, cos Φ					✓	✓									
	Energy: Wh					✓	✓									
OTHERS	Varistors Breaking Voltage. Voltage Ramp Testing from 50 to 1000 V (500 V/s), breaking current 1 mA				✓	✓	✓	✓								
	System Voltage				✓	✓	✓	✓								
	Voltage Register				✓											
	Current up to 200 A (TRMS), with clamp		✓			✓	✓	✓								
	Frequency					✓	✓									
	Contact Testing L-PE					✓	✓									
	Connection Analysis in plug-ins															✓
	Phase Sequence					✓	✓									✓
	Wires and protections localization and tracing						✓								✓	
	PC Connection		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			
	EN 61557				1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7	1,2,4,5	1,3,6	1,6	1,3,7	1,2,4	1,5	5		7



REBTest. Full set.

- With the equipment and accessories necessary to comply with the basic requirements of the R.E.B.T. 2002 regarding tooling.
- Made up by 2 devices:
 - **REBTest**: Equipment meeting the measurement functions required by the REBT regarding inspection and safety certification of low voltage electric installations: earth resistance, insulation, continuity, voltage, loss current, buckle resistance, circuit breaker test, phase sequences and lux measurement.
 - **Power-Harmonics Analyser**: Three-phase network analyser, medium range. Valid for the basic and specialist category requirements.



Item	Code	EAN 13	Features
REBTest	0874894	8426487003563	Includes: REBTest, Power-Harmonics Analyser, 3 transport cases, accessories, manuals and gauging certificate
KMA 3010	0874775	8426487747757	Insulation electrode for non-conduction floors
KMA 3104	0874878	8426487002504	Operating theatre insulation monitoring system verifier

Optional
accessories
for specialist category

NEW



KIT REBTest 2008..

- The simplest full set in the range.
- Made up by 2 devices:
 - KMI 3102, Eurotest REBT: designed to fully comply with REBT 2002 requirements regarding safety measurements, specialist category. INCLUDES THE OPERATING THEATRE INSULATION MONITORING SYSTEM TEST, (more information on page 155).
 - KMI 2492, PowerQ, three-phase network analyser, including power and harmonics (more information on page 146).

Item	Code	EAN 13	Features
KIT REBTest 2008	0874923	3831063412823	Includes: Eurotest REBT + Power Q, transport cases, accessories, manuals and gauging certificate.

Full sets.



**R.E.B.T.
2002**

- Set including all the equipment required for the electric installers authorised in Low Voltage, in accordance with ITC-BT-03 of the 2002 R.E.B.T.
- With two aluminium cases with lock and blanked polyester foam inside. The first one includes, separately, the three-phase network analyser. The second one includes the set of equipment necessary for the inspection and certification of electricity installations. In this way a prolonged study of the quality of the electric energy feeding an installation can be carried out, at the same time as the safety of this or any other installation is inspected. The set includes the following measuring devices:
 - Case 1: Three-phase network analyser. Two options:
 - **KMI 2092**: POWER-HARMONICS ANALYSER (Ref. set KBT-03/1).
 - **KMI 2192**: POWER-QUALITY ANALYSER (Ref. set KBT-03/2) (Check Page 141).
 - Case 2: Equipment for the verification of the safety of electric installations.
 - **KMI 2124**: Measurer of ground resistance, terrain resistance and TRMS current with KMA 1018 high resolution pincer, also included in the set, valid for the measurement of current loss in the installation (check Page 155).
 - **KMI 2123**: Measurer of insulation resistance and conductor continuity (check Page 157).
 - **KMI 2120**: Measurer of the buckle resistance, line resistance, possible short-circuit current and contact voltage. It is also a circuit breaker verifier (check Page 158).
 - **KL 1330**: Digital Luxmeter (check Page 198).
 - **KM 97R**: True efficient value digital multimeter, IP 64 protection level (check Page 178).
 - **KTF 8**: AC/DC voltage detector, indication of phase/neutral and polarity (check Page 192).
- The set includes all the necessary accessories, technical manuals and programming and analysis software.
- Supplied with a theoretical manual on measurement procedures.

Optional
accessories for special
category

Item	Code	EAN 13	Features
KBT-03/1	0871151	8426487711512	Includes: KMI 2092, KMI 2124, KMA 1018, KMI 2123, KMI 2120, KL 1332, KM 97R, KTF 8, accessories, manuals and software
KBT-03/2	0871152	8426487711529	Includes: KMI 2192, KMI 2124, KMA 1018, KMI 2123, KMI 2120, KL 1332, KM 97R, KTF 8, accessories, manuals and software
KMA 3010	0874775	8426487747757	Insulation electrode for non-conduction floors
KMA 3104	0874878	8426487002504	Operating theatre insulation monitoring system verifier

Full sets.



**R.E.B.T.
2002**

KOBAN INSTRUMENTATION

- Set including all the equipment required for the electric installers authorised in Low Voltage, in accordance with ITC-BT-03 of the R.E.B.T of 2002.
- With two aluminium cases with lock and blanked polyester foam inside. The first one includes, separately, the three-phase network analyser. The second one includes the multifunctional equipment for the inspection and certification of any type of low voltage electric installations. In the same way as the previous set, the professional installer may carry out various inspections in different electricity installations, at the same time as carrying out energy quality studies. The set includes the following measuring devices:
 - Case 1: Three-phase network analyser. Two options:
 - **KMI 2092: POWER-HARMONICS ANALYSER** (Ref. set KBT-03/3).
 - **KMI 2192: POWER-QUALITY ANALYSER** (Ref. set KBT-03/2) (Check Page 141).
 - **Case 2: Equipment for the verification of the safety of electric installations.**
 - **KMI 2086-EU, EUROTTEST 61557**: multifunctional equipment combining all the necessary measurements for a full inspection of any electric installation. Includes one probe for the measurement of light intensity. Also allows the verification of protections against varistor surges, as well as the location and follow-up of hidden cabling of the installation, identification of protections in the box, etc. (Check Page 154).
- **KM 97R**: True efficient value digital multimeter, IP 64 protection level (check Page 178).
- **KTF 8**: AC/DC voltage detector, indication of phase/neutral and polarity (check Page 192).
- The set includes all the necessary accessories, technical manuals and programming and analysis software.
- Supplied with a theoretical manual on measurement procedures.

Item	Code	EAN 13	Features
KBT-03/3	0871153	8426487711536	Includes: KMI 2092, KMI 2086-EU KM 97R, KTF 8, accessories, manuals and software
KBT-03/4	0871154	8426487711543	Includes: KMI 2192, KMI 2086-EU KM 97R, KTF 8, accessories, manuals and software
KMA 3010	0874775	8426487747757	Insulation electrode for non-conduction floors
KMA 3104	0874878	8426487002504	Operating theatre insulation monitoring system verifier

Optional
accessories for special
category

Supplementary sets.



**R.E.B.T.
2002**

- Set including all the recently included equipment in the ITC-BT-03 of the 2002 R.E.B.T., not included in the former edition of R.E.B.T. Ideal for those electrical professionals wishing to complete their measuring equipment in keeping with the new regulations.
- With one aluminium case with lock and blanked polyester foam inside, including the following measuring devices:
- Three-phase network analyser. Two options:
 - **KMI 2092**: POWER-HARMONICS ANALYSER (Ref. set KBT-03/5).
 - **KMI 2192**: POWER-QUALITY ANALYSER (Ref. set KBT-03/6) (Check Page 141).
- **KMI 2120**: Mesurer of the buckle resistance, line resistance, possible short-circuit current and contact voltage. It is also a circuit breaker verifier (check Page 158).
- **KL 1330**: digital Luxmeter (check Page 198).
- The set includes all the necessary accessories, technical manuals and programming and analysis software.
- Supplied with a theoretical manual on measurement procedures.

Optional
accessories for special
category

Item	Code	EAN 13	Features
KBT-03/3	0871153	8426487711536	Includes: KMI 2092, KMI 2120 KL 1332, accessories, manuals and software
KBT-03/4	0871154	8426487711543	Includes: KMI 2192, KMI 2120 KL 1332, accessories, manuals and software
KMA 3010	0874775	8426487747757	Insulation electrode for non-conduction floors
KMA 3104	0874878	8426487002504	Operating theatre insulation monitoring sys- tem verifier

Analog electronic high voltage meter.



ISOTEST

- Portable unit designed to carry out analysis and measures of the insulation resistance in high voltage systems, both in cables and transformers, as well as in engines, machinery and all kinds of electric applications.
- Measuring scale from 500 K Ω to 500 G Ω .
- Testing voltage: 500, 100, 2.500 and 5.000 VDC.
- External voltage measurement from 0 to 600 VAC.
- Designed according to the IEC 1010, EN 61557, EN 50081-1 and EN 50082-1 Standards.

Item	Code	EAN 13	Features
KMI 2060	0874810	8426487748105	Unit. Testing cables (2 items) for low and high voltage. Instruction manual.

Insulation testing and diagnosis in high voltage installations.



TERAHOHM 5 KV

- Multifunctional digital unit designed to check transformers, windings, cables, engines, circuits and insulation systems in high voltage installations.
- Insulation test up to 5 T Ω , with testing voltages from 250 V to 5000 V, in 50 V spacing and time settings from 1 second to 30 minutes.
- Capacity measurement up to 50 μ F.
- Diagnosis test for machinery with the following functions: Discharge current, voltage and capacity; polarization index (PI), dielectric discharge (DD) ratio.
- Automatic insulation resistance measurement in 5 steps, with testing voltages which can be selected up to 5,000 V, with a testing time setting adjustable to each voltage.
- Dielectric strength test up to 5,500 V, with leak current measurement, with voltage gradient according to the selected values.
- External voltage measurement from 0 to 600 V both alternating and continuous current.
- Frequency measurement.
- Designed according to the EN 61557-2, EN 61010-1, Cat III 600V Standards.

Item	Code	EAN 13	Features
KMI 2077	0874811	8426487748112	Unit. 3 testing tips 2 m. Tips and crocodile clips. Power supply cable. Instruction manual. Calibration, conformity and guarantee certificates
KMS 2003	0874863	8426487748631	High voltage cable set.
KMA 1056	0874839	8426487748396	Software "Tera Link" with RS232 cable.
KMA 1046	0874840	8426487748402	Rechargeable batteries 6x1,2 Ni Cd.
KMS 2022	0874777	8426487004935	A.T. 8m. Cables

Panel, electrical machinery and application testers



KMI 2170, MULTISERVICER

- Carries out both start-up and periodical panel and machinery tests:
- PERIODICAL TEST
 - Continuity (10 A and 200 mA).
 - Leakage current
 - Functional test: W, VA, V AR, cos, V, I, Hz.
- ELECTRICAL EQUIPMENT OR MACHINES (EN 60204):
 - Dielectric rigidity 1.000 V.
 - Continuity 10 A and voltage drop in conductors.
 - Discharge time.
 - Insulation resistance 500 V.
- ELECTRICAL PANELS (EN 60439):
 - Dielectric rigidity 1.000 V and 2.500 V.
 - Continuity 10 A and voltage drop.
 - Discharge time.
 - Insulation resistance 500 V.

Item	Code	EAN 13	Features
KMI 2170	0874756	8426487747566	Instrument, cables and test probes, crocodiles, software, instruction manual, calibration and CE certificates.

Panel, machinery and electric application certifier.



KMI 2094, CE MULTITESTER

- Last generation unit designed to carry out a thorough test on electric applications and panels according to the requirements of the CE regulations.
- Automatic operation, totally programmable, easy to integrate in a production system. There is a possibility of remote control. Optional EAN Code reader. Help menu screens. Bi-directional software (optional).
- Dielectric strength test up to 5 KV, with a previous electronic adjustment of the voltage gradient.
- Overheating/burn-out test in high voltage systems.
- Insulation resistance test.
- Voltage drop test.
- Continuity test.
- Residual voltage discharge time test.
- Leak current test.
- Functional tests: voltage, power, current, frequency, cos Ø, leak current.
- Designed according to the EN 6024-1, VDE 0113, IEC 60439-1, IEC 60989, EN 60335-1,

Item	Code	EAN 13	Features
KMI 2094	0874809	8426487748099	Unit. Two high voltage testing guns. Set of testing tips 2m for insulation and continuity. 5 crocodile clips. Cable for discharge time measurement. Power supply cable. Accessory set. instruction manual. Conformity, calibration and guarantee certificates. Optional accessories: please, get in contact with us.

Portable electrical application testers



KMI 2140, OMEGAPAT, KMI 2141 BETAPAT

- Carries out a complete safety check on all types of Class I, Class II and Class III electrical installations.
- Ideal for initial and periodical tests, technical services, etc.
- The standard tester offers a series of standard auto-tests in compliance with various applicable regulations and can be adapted to the requirements of each individual case.
- Storage memory of up to 4,000 auto-test results.
- Large LCD screen and manual keyboard. Help menus.
- Advanced software package. Information and bar code sticker, etc. printing options.
- The BETAPAT is the same instrument but does not include the "FLASH" dielectric rigidity test.

Item	Code	EAN 13	Features
KMI 2140	0874787	8426487747870	Instrument, connection cables, software package, instruction manual and calibration certificates.
KMI 2141	0874789	8426487747894	Instrument, connection cables, software package, instruction manual and calibration certificates.

NEW



KMI 2142. AlphaPAT.

- Manual device destined for the verification of portable electrical applications.
- Automatic sequence operation mode (simplified menu with approx. 120 types of pre-selected tests and made-to-measure menu allowing the use of pre-installed tests with a given sequence).
- Suitable for the verification of medical equipment.
- This section complies with the safety regulation and machinery verification requirements, providing high precision and protection both of the user and of the verifier during the inspection, under any working conditions.
- Supplied with PC software, ideal for the compilation of data, analysis and printing out of reports of the tests carried out:
 - Ground connection test.
 - Insulation resistance.
 - Circuit breaker loss test.
 - Operation test.
 - Current test by pincer ammeter.
 - Screening test.
 - Equivalent loss current.
 - Electric contact test.
 - Probe test.
 - Polarity test.
- All measurements are in true efficient value.
- RFID Reader/writing and print out.
- 4 Mbits Flash type data memory.
- Communication with PC, bar code reader.

Item	Code	EAN 13	Features
KMI 2142	0874916	8426487006298	INCLUDES: Device, earth/shock loss pincer, transport bag, power supply cable, instructions manual, declaration of conformity, guarantee and verification data.

NEW



KMI 2143. AutoPAT.

Automatic verification equipment, for routine safety tests on portable electric applications, health equipment and CEI connectors.

- Verification tests:
 - DC insulation resistance.
 - Continuity and voltage losses of the PE protection cable
 - Equivalent current loss.
 - CEI connector polarity.

Pre-programmed auto-carrying out test. Simply press a button and wait for diagnosis OK/ NOT OK.

Item	Code	EAN 13	Features
KMI 2143	0874917	8426487006304	INCLUDES: Device, earth connector, connection cable, manual and certificates.

Analysers and testers.

	Item	Code	EAN 13	Description	To be use with
	KMA 1014	0874832	8426487748327	Black test lead.	All equipment.
	KMA 1015	0874831	8426487748310	Blue test lead.	All equipment.
	KMA 1016	0874833	8426487748334	Red test lead.	All equipment.
	KMA 1013	0874834	8426487748341	Black crocodile clip.	All equipment.
	KMA 1064	0874835	8426487748358	Red crocodile clip.	All equipment.
	KMA 1114	0874859	8426487748594	Black crocodile clip with insulated contact.	KMI 2150
	KMA 1011	0874837	8426487748372	Universal connection 3x1.5 m cable.	KMI 2086, KMI 2087, KMI 2088, KMI 2150, KMI 2120, KMI 2121, KMI 2122
	KMA 1112	0874858	8426487748587	Universal connection 3x1.5 m cable with mini test leads.	KMI 2150
	KMA 1055	0874836	8426487748365	Universal connection 2x1.5 m cable.	KMI 2123
	KMA 1021	0874759	8426487747597	Universal connection 4x1 m cable for earth measurements.	KMI 2086, KMI 2088
	KMA 1023	0874762	8426487747627	4.5 m green cable for earth measurements.	KMI 2086, KMI 2088, KMI 2124
	KMA 1024	0874763	8426487747634	4.5 m black cable for earth measurements.	KMI 2086, KMI 2088, KMI 2124
	KMA 1026	0874761	8426487747610	20 m red cable for earth measurements.	KMI 2086, KMI 2088, KMI 2124
	KMA 1025	0874838	8426487748389	15 m red cable for earth measurements.	KMI 2086, KMI 2088, KMI 2124

Analysers and testers.

	Item	Code	EAN 13	Description	To be use with
	KMA 1022	0874758	8426487747580	Auxiliary earth rod.	KMI 2086, KMI 2088, KMI 2124, KRT 1505
	KMS 2001	0874861	8426487748617	Complete earth kit 20 m.	KMI 2086, KMI 2088, KMI 2124
	KMS 2002	0874862	8426487748624	Complete earth kit 50 m.	KMI 2086, KMI 2088, KMI 2124
	KMA 1018	0874822	8426487748228	High-resolution clamp, with a 2x1.5 m cable for measuring current, leakage current, harmonics and special earth types.	KMI 2086, KMI 2088, KMI 2124, KMI 3102, KMI 3105, KMI 2142
	KMA 1019	0874821	8426487748211	Standard clamp, generates current being measured in earth with 2 clamps (without rods) and the Line Tracer.	KMI 2086, KMI 2088, KMI 2124 (with 4 cables kit KMS 2009), KMI 2093 (with connector cable KMA 1068), KMI 2092 (with connector cable KMA 1039).
	KMS 2009	0874773	8426487747733	4x45 cable, four colours to connect KMI 2124 and KMA 1019	KMI 2124
	KMA 1068	0874848	8426487748488	Connecting cable to connect KMA 1019 and KMA 1074 clamps to the Line Tracer (KMI 2093).	KMI 2093
	KMA 1067	0874846	8426487748464	Cable + probe to connect R10K receiver to the cable to be identified with the Line tracer (KMI 2093)	KMI 2093
	KMA 1074	0874885	8426487748853	200 A / 0.2 V clamp for the KMI 2093	KMI 2093 (with cable KMA 1068)
	KMA 1070	0874884	8426487748846	200 A / 1 V clamp with 2 m cable.	All of the analysers and testers.
	KMA 1069	0874883	8426487748839	100 A / 1 V clamp with 2 m cable.	All of the analysers and testers.
	KMA 1120	0874780	8426487747801	Flexible Pincers. Selectable transformation Ratio: 30/300/3000 A/1V All the network analysers	All of the analysers and testers.
	KMA 3021	0874880	8426487748808	1.000 A / 1 V clamp with 2 m cable. Max. Ø: 58 mm. Max. bus bar: 100x32 mm. 130x19 mm.	All of the analysers and testers.

Analysers and testers.

	Item	Code	EAN 13	Description	To be use with
	KMA 3022	0874881	8426487748815	2.000 A / 1 V clamp with 2 m cable. Max. Ø: 70 mm. Max. bus bar: 100x46 mm. 126x35 mm.	All of the analysers and testers.
	KMA 3023	0874882	8426487748822	3.000 A / 1 V clamp with 2 m cable. Max. Ø: 83 mm. Max. bus bar: 100x58 mm. 126x47 mm.	All of the analysers and testers.
	KMA 1001	0874871	8426487748716	Comander Schuko.	KMI 2086, KMI 2087
	KMA 1119	0874875	8426487748754	Lux meter probe	KMI 2086, KMI 2087
	KMA 1002	0874819	8426487748198	Probe commander.	KMI 2086, KMI 2087, KMI 2088, KMI 2123
	KMA 1005	0874820	8426487748204	Receiver, tracer-identifier of cables and protective elements.	KMI 2086, KMI 2087
	KMA 1110	0874824	8426487748242	Three-phase cable.	KMI 2086, KMI 2087
	KMA 1111	0874825	8426487748259	Three-phase adapter.	KMI 2086, KMI 2087, KMI 2122, KMI 2150
	KMA 1037	0874841	8426487748419	5 A/1 V Current transformer.	KMI 2092, KMI 2192
	KMA 1017	0874823	8426487748235	Cable RS232	All of the analysers and testers.
	KMA 1041	0874843	8426487748433	2 headsets and microphones kit for intercommunicating via structured cabling.	KMI 2012
	KMS 2004	0874770	8426487747702	Remote unit kit with communication plus 2 headsets and microphones for intercommunication.	KMI 2014
	KMS 2005	0874771	8426487747719	Remote unit #2-#6 (5 in total) kit with tracer for Cable Scanner tests.	KMI 2014

Analysers and testers.

	Item	Code	EAN 13	Description	To be use with
	KMS 2006	0874772	8426487747726	Remote unit kit #7-#15 (9 in total) with tracer for Cable Scanner tests.	KMI 2014
	KMA 1082	0874769	8426487747696	Receiver for tracing hidden structured cabling with the Cable Scanner.	KMI 2014
	KMA 1043	0874844	8426487748440	Tracer kit #5-#16 (12 units), for immediate tracing with user point in the communications RACK.	KMI 2012, KMI 2014
	KMA 1044	0874845	8426487748457	Tracer kit #17-#28 (12 units), for immediate tracing with user point in the communications RACK.	KMI 2012, KMI 2014
	KMA 1045	0874868	8426487748686	Ultra quick charger kit plus 4 rechargeable NiCd batteries, 12 VDC.	KMI 2120, KMI 2121, KMI 2122, KMI 2123, KMI 2124
	KMA 1046	0874840	8426487748402	Kit of 6 rechargeable NiCd batteries, 12 VDC, for KMI 2077 (TeraOhm 5 KV, internal charger).	KMI 2077, KMI 2016
	KMA 1086	0874766	8426487747665	Ultra quick charger kit plus 6 rechargeable NiCd batteries, 1.2 VDC for the Cable Scanner.	KMI 2012
	KMA 1083	0874767	8426487747672	High-voltage cable kit: 2 test cables and 2 crocodile clips for use with the TeraOhm 5 KV.	KMI 2014
	KMS 2003	0874863	8426487748631	Kit of 2 high voltage cables with special plug.	KMI 2077, KMI 2060
	KMS 1057	0874864	8426487748648	Kit of 2 high voltage cables with special plug.	KMI 2094
	KMS 1058	0874865	8426487748655	10 m cables (2 units) for measuring continuity.	KMI 2094
	KMS 1072	0874866	8426487748662	Cables (2 units) for measuring continuity, 2.5 m. with crocodile clips.	KMI 2094
	KMA 0941	0874852	8426487748525	Remote START/STOP control pedal	KMI 2094
	KMA 0942	0874853	8426487748532	Red / black DANGER/CLEAR luminous indicator	KMI 2094

Analysers and testers.

	Item	Code	EAN 13	Description	To be use with
	KMA 1059	0874855	8426487748556	Insulation + continuity adapter.	KMI 2094
	KMA 1060	0874856	8426487748563	Time and discharge test adapter.	KMI 2094
	KMA 1017	0874823	8426487748235	Circuit breaker cable to be connected to a door contact and which will automatically block the tests if someone suddenly enters during the dielectric rigidity test.	KMI 2094
	KMA 1073	0874857	8426487748570	Software "CE Link" + Cable RS 232.	KMI 2094
	KMA 1052	0874826	8426487748266	Software "Euro Link Pro" + RS 232.	KMI 2086-ST
	KMA 1050	0874830	8426487748303	Software "Smart Link" + RS 232.	KMI 2120, KMI 2121, KMI 2122, KMI 2123, KMI 2124
	KMA 1056	0874839	8426487748396	Software "Tera Link" + RS 232	KMI 2077
	KMA 1006	0874869	8426487748693	Large carry bag.	All equipment
	KMA 1020	0874828	8426487748280	Small carry bag.	KMI 2120, KMI 2121, KMI 2122, KMI 2123, KMI 2124
	KMA 1115	0874860	8426487748600	Protective cover.	KMI 2150, KMI 2093, Volt Scanner
	KMA 1007	0874829	8426487748297	Carrying strap	KMI 2120, KMI 2121, KMI 2122, KMI 2123, KMI 2124
	KMA 1135	0874877	8426487748778	Cargador MultiLAN 350	KMI 2016



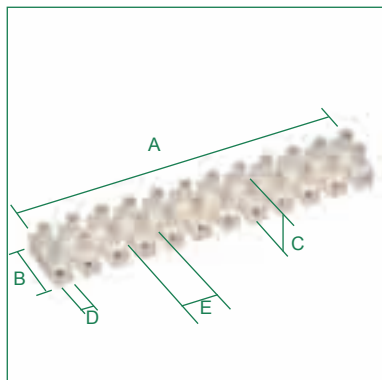
Installation
material



KOBAN 

The KOBAN logo consists of the word 'KOBAN' in a green, serif font, followed by a circular symbol containing a stylized 'K' in a yellow-to-orange gradient.

6.6 Polyamide terminal strips.



- Compliant with EEC 73/23 and EEC 93/68 directives on low-voltage.
- UNE-EN 60998.

Technical Data:

- Insulating material: 6.6 polyamide.
- Connection terminal: brass.
- Screws: zinc-plated steel, safety screws.
- Nominal voltage: 400V.
- Self-extinguishing: 960°C, UNE 20672-2-1, VDE 0471, CEI 695-2-1.
- Maximum temperature: 105°C permanent, 160°C momentary.
- Minimum temperature: -40°C.

Natural colour.

Item	Code	EAN 13	Poles	Section mm ²	Voltage (A)	Package minimum	Contents Package
TS 04 NA	0776004	8426487760046	12	4	24	10	200
TS 06 NA	0776006	8426487760060	12	6	32	10	200
TS 10 NA	0776010	8426487760107	12	10	57	10	200
TS 16 NA	0776016	8426487760169	12	16	76	10	100
TS 25 NA	0776025	8426487760251	12	25	101	10	50

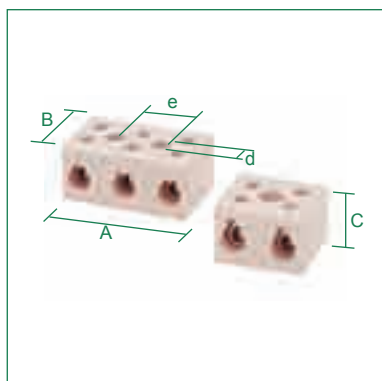
Black colour.

Item	Code	EAN 13	Poles	Section mm ²	Voltage (A)	Package minimum	Contents Package
TS 04 BK	0776104	8426487761043	12	4	24	10	200
TS 06 BK	0776106	8426487761067	12	6	32	10	200
TS 10 BK	0776110	8426487761104	12	10	57	10	200
TS 16 BK	0776116	8426487761166	12	16	76	10	100
TS 25 BK	0776125	8426487761258	12	25	101	10	50

Dimensions (mm).

Item	Ø Terminal	Screw	A	B	C	D	E
TS 04	2,9	M3	93,5	17,5	15,5	2,95	8
TS 06	3,5	M3	117,5	20	17	3,5	10
TS 10	4,2	M3,5	139,5	22	19,5	3,6	12
TS 16	6	M4	158	25,5	25,3	4,3	13,5
TS 25	7	M5	194,4	37	27,7	4,3	16,5

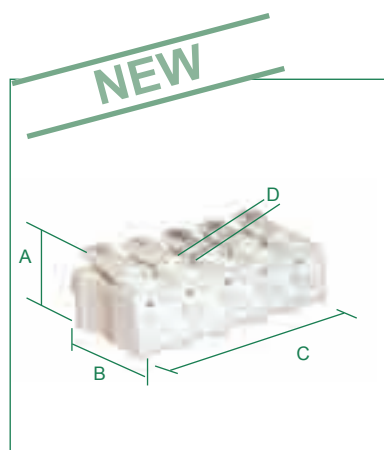
Porcelain connection units.



Item	Code	EAN 13	Poles	Section mm ²	Package
BP 10-2E	0776190	8426487761906	2	6	75
BP 10-3E	0776191	8426487761913	3	6	50
BP 16-2E	0776192	8426487761920	2	16	25
BP 16-3E	0776193	8426487761937	3	16	25

Dimensions (mm).

A	B	C	D	E
23,5	21	16,5	4,8	—
33	18	15	4,5	11,5
34	30	23	5	—
50	30	23	5	18



Fast terminal strips

- Special for lighting.
- Very quick and simple installation, without screws.
- Supplied without anchoring pins and without earthing pin (with pins and/or earthing pin upon request).
- Insulation material: polyamide 6.6.
- Connection terminal: tin plated copper.
- Nominal voltage: 450V.
- Nominal voltage: 24 A.
- Self-extinguishing: 960°, in compliance with UTE C12-061 by LCIE.
- Maximum temperature: 110°C.
- VDE and ENEC certification.

Item	Code	EAN 13	Poles	Section mm ²	Package
SLK 3/3	0776126	8426487008360	3	2.5	750
SLK 3/4	0776127	8426487008377	4	2.5	500
SLK 3/5	0776128	8426487008384	5	2.5	500

Dimensions (mm).

A	B	C	D
16.3	25.5	29.7	3.1
16.3	25.5	39.7	3.1
16.3	25.5	49.7	3.1



Connection couplers.

- A new connection concept, specifically designed to facilitate work and guarantee safety:
 - Wide opening for inserting wires.
 - Made from transparent polycarbonate: connections are easily checked.
 - Easy separation of poles.
 - Closed end to avoid false contacts.
 - Screw with large contact surface with cables.

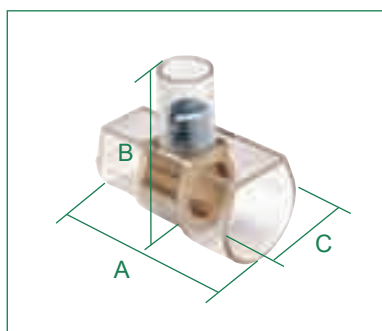
Technical Data:

- Insulating material: transparent polycarbonate.
- Connection terminal: brass.
- Screws: zinc-plated steel, safety screws.
- Nominal voltage: 450/500 V.
- Self-extinguishing: wire heating test to 960°C, UNE 20672-2-1, IEC 695-2-1.
- Maximum temperature: + 130°C.

Official approvals:

KOBAN connection couplers comply with the following standards:

- UNE-EN 60998-1: connection device for low-voltage circuits for domestic and other similar uses.
- UNE-EN 60998-2-1: particular regulations for independent connection devices with screw-tightening elements.
- They also comply with the requirements of 73/23 EEC and 93/68 EEC Community directives on low voltage, as per the CE marking.



Dimensions (mm).

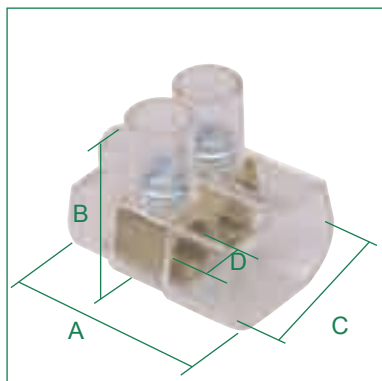
Item	Ø Terminal	A	B	C
B 15	3,2	16	15	8
B 25	4	19,7	18,3	9,6
B 40	4,5	22,3	19,5	10,2
B 60	6	24,5	21,9	12,4
B 100	7	28,9	25	14,4
B 160	9,5	34,5	31	18,8
B 250	12	38,4	39,9	22
B 350	14	45,6	42,8	24,4

Item	Code	EAN 13	Section nominal	Capacity n° of conductors			Pack
				Section mm²	Rigid	Flexible	
B 15 (10 Poles)	0776151	8426487005475	2x1,5	1,5 1 0,75	2 2-3 2-4	2 2-3 2-4	25/450
B 25 (10 Poles)	0776150	8426487761500	2x2,5	2,5 1,5 1	2 2-3 2-4	2 2-3 2-4	25/450
B 40 (10 Poles)	0776152	8426487761524	2x4	4 2,5 1,5	2 2-3 2-4	2 2-3 2-4	25/450
B 60 (10 Poles)	0776154	8426487761548	2x6	6 4 2,5	2 2-3 2-4	2 2 2-4	25/450
B 100 (10 Poles)	0776156	8426487761562	2x10	10 6 4	2 2-3 2-4	2 2 2-3	10/300
B 160 (5 Poles)	0776158	8426487761586	2x16	16 10 6	2 2-3 2-4	2 2 2-3	10/240
B 250 (1 polo)	0776160	8426487761609	2x25	25 16 10	2 2-3 2-4	2 2 2-3	5/150
B 350 (1 polo)	0776162	8426487761623	2x35	35 25 16	2 2-3 2-4	2 2 2-3	5/150

Polipropilen couplers connection.

Item	Code	EAN 13	Section nominal	Capacity n° of conductors			Pack
				Section mm²	Rigid	Flexible	
B25-TS06 NAT B25-TS06 BK	0776165 0776169	8426487761654	2x2,5 2x2,5	2,5 1,5 1	2 2-3 2-4	2 2-3 2-4	20
B40-TS10 NAT B40-TS10 BK	0776166 0776170	8426487761661	2x4 2x4	4 2,5 1,5	2 2-3 2-4	2 2-3 2-4	20
B60-TS16 NAT B60-TS16 BK	0776167 0776171	8426487761678	2x6 2x6	6 4 2,5	2 2-3 2-4	2 2 2-4	20
B100-TS25 B100-TS25 BK	0776168 0776172	8426487761685	2x10 2x10	10 6 4	2 2-3 2-4	2 2 2-4	20



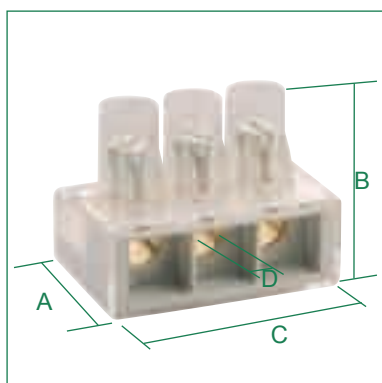


Two-holed unipolar connection couplers.

Item	Code	EAN 13	Section nominal	Capacity number of conductors			Pack
				Section mm ²	Rigid	Flexible	
B 22	0776153	8426487005482	2x1,5	1,5	1	1	20/600
				1	1	1	
				0,75	1-2	1-2	
B 42	0776176	8426487761760	2x6	6	2	2	20/600
				4	2	2	
				2,5	4	4	
B 62	0776178	8426487761784	2x16	16	2	2	20/600
				10	2	2	
				6	4	4	
B 102	0776180	8426487761807	2x25	25	2	2	10/300
				16	2	2	
				10	4	4	
B 162	0776182	8426487761821	2x35	35	2	2	5/150
				25	2	2	
				16	4	4	

Dimensions (mm).

Item	A	B	C	D
B22	16	12	15	3,2
B42	18	17	15	4
B62	23	22	20	6
B102	29	27	25	7,5
B162	32	31	32	9,5



Three-holed unipolar connection couplers.

Item	Code	EAN 13	Section nominal	Capacity number of conductors			Pack
				Section mm ²	Rigid	Flexible	
B 63	0776250	8426487762507	3x6	6	3	3	10/300
				4	3	3	
				2,5	9	6	
B 163	0776252	8426487762521	3x16	16	3	3	5/150
				10	3	3	
				6	6	6	
B 253	0776254	8426487762545	3x25	25	3	3	5/150
				16	3	3	
				10	6	6	

Dimensions (mm).

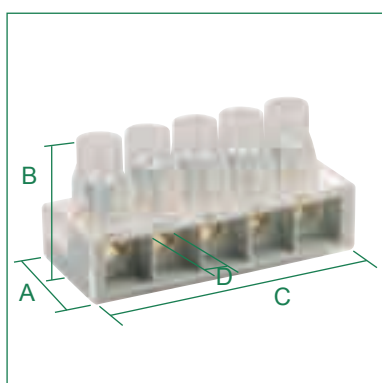
Item	A	B	C	D
B63	23	23	27	4,5
B163	25	27	35	6
B253	29	27	41	7,5

Five-holed unipolar connection couplers.

Item	Code	EAN 13	Section nominal	Capacity number of conductors			Pack
				Section mm ²	Rigid	Flexible	
B 65	0776256	8426487762569	5x6	6	5	5	10/300
				4	5	5	
				2,5	15	10	
B 165	0776258	8426487762583	5x16	16	5	5	5/150
				10	5	5	
				6	10	10	
B 255	0776260	8426487762606	5x25	25	5	5	5/150
				16	5	5	
				10	10	10	

Dimensions (mm).

Item	A	B	C	D
B65	23	23	42	4,5
B165	25	27	50	6
B255	29	27	65	7,5



BOXDIN. Distribution blocks for DIN rails.

- Maximum ease in wiring distribution panels.
- For assembly on DIN rail or on panel.
- Manufactured from polyamide with clear protective lid from polycarbonate.
- Connective part made from brass and screws from zinc-plated steel.
- Complete design and construction. Similar height to the protection switches, allowing you to easily close the panel.
- The screws are raised (gaps for open cables) saving time and work when introducing the cables.
- Compliant with IN 60947-1 Standard.
- Suitable for fotovoltaic applications.

Two-pole, 50, 100 and 125 A.



Item	Code	EAN 13	N° of holes per pole & Ø en mm	Capacity conductor flexible	Package
BD 5072 (50A,7con)	0776224	8426487002023	3x Ø2,5 2x Ø4	2,5-6	4/48
BD 50112 (50A,11con)	0776226	8426487002030	3x Ø2,5 2x Ø4	2,5 - 6	4/48
BD 10072 (100A,7con)	0776225	8426487762255	5x Ø5,5 2x Ø7,5	2,5-6 10-25	4/40
BD 125112 (125A,11con)	0776240	8426487762408	7x Ø5,5 2x Ø7,5 2x Ø9	2,5-6 10-25 10-35	2/20
BD 125152 (125A,15con)	0776229	8426487762293	10x Ø5,5 3x Ø7,5 2x Ø9	2,5-6 10-25 10-35	2/20

Four-pole, 50, 100, 125 and 160 A.

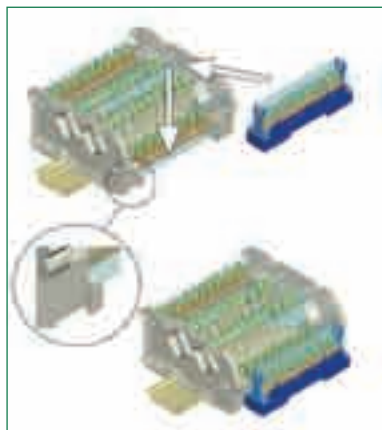


Item	Code	EAN 13	N° of holes per pole & Ø en mm	Capacity conductor flexible	Package
BD 5074 (50A,7con)	0776230	8426487002054	3x Ø2,5 2x Ø4	2,5-6	4/48
BD 50114 (50A,11con)	0776234	8426487002061	3x Ø2,5 2x Ø4	2,5 - 6	2/24
BD 10074 (100A,7con)	0776227	8426487762279	5x Ø5,5 2x Ø7,5	2,5-6 10-25	2/20
BD 125114 (125A,11con)	0776241	8426487762415	7x Ø5,5 2x Ø7,5 2x Ø9	2,5-6 10-25 10-35	1/10
BD 125154 (125A,15con)	0776231	8426487762316	10x Ø5,5 3x Ø7,5 2x Ø9	2,5-6 10-25 10-35	1/10
BD 16084 (160A,8 con)	0776220	8426487762200	5x Ø7 1x Ø8 1x Ø9 1x Ø12	6-10 10-25 16-35 25-50	1/12
BD 160134 (160A,13con)	0776222	8426487762224	8x Ø7 2x Ø8 2x Ø9 1x Ø12	6-16 10-25 16-35 25-50	1/6

Five-pole 160 A.



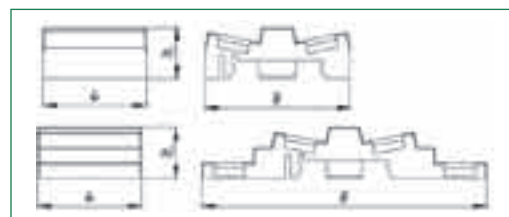
Item	Code	EAN 13	N° of holes per pole & Ø en mm	Capacity conductor flexible	Package
BD 16085 (160A,8 con)	0776221	8426487762217	5x Ø7 1x Ø8 1x Ø9 1x Ø12	6-10 10-25 16-35 25-50	1/12
BD160135 (160A,13 con)	0776223	8426487762231	8x Ø7 2x Ø8 2x Ø9 1x Ø12	6-16 10-25 16-35 25-50	1/6

BOXDIN: possibility of expansion of the neutral up to 100 A – 125 A.


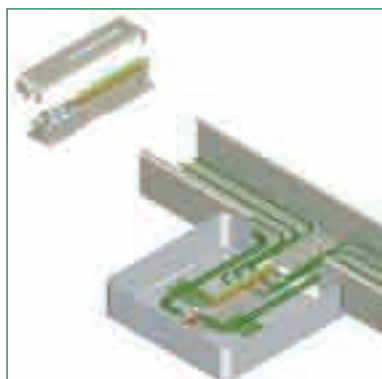
- Accessories for the expansion of the neutral in four-pole distributor blocks of 100 and 125 A.

Distribution block	Neutral expansion accessory (blue)	Phase expansion accessory (grey)
BD10074	507 N	507 F
BD125114	5011 N	5011 F
BD125154	5015N	5015 F

Item	Code	EAN 13	Package
507 N	0776238	8426487002085	20/240
5011 N	0776243	8426487002092	12/144
5015 N	0776247	8426487002108	10/120
507 F	0776197	8426487003396	20/240
5011 F	0776198	8426487003402	12/144
5015 F	0776199	8426487003419	10/120

Bracket for one-pole distribution blocks of 50 A protected distribution


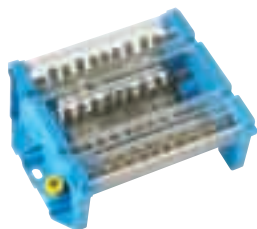
Item	Code	EAN 13	Dimensions mm	Package
160SM-2	0776251	8426487003570	68 x 30 x 60	6/72
160SM-4	0776253	8426487003587	110 x 30 x 60	6/72

EQUIJOINT BT. For earth or lightning conductor installation


- Connection system by means of steel rod, conductive copper, braid or cable (35 mm² flexible cable) and section cables of 2.5, 4, 6, 10, 16, 25 and 35 mm².
- Opened insertion holes (screws partially screwed).
- Cover housed with rail fixed in place with unloseable screws.
- Possibility of fixing onto plate with screw or onto spring DIN rail.
- Diagram on the leg to identify conductors.
- Buttonhole over the cover to manipulate the screws with the cover closed.

Item	Code	EAN 13	Ø hole
BT137	0776255	8426487003594	6 mm
BT1311	0776257	8426487003600	6 mm
BT1315	0776259	8426487003617	6 mm

NEW

**BOXDIN 2: Distribution blocks for DIN track.**

- For assembly on DIN track on panel.
- Manufactured in polyamide with transparent polycarbonate protection lid.
- Connection part in brass and zinc coated steel screws.
- Complete design and construction. Small in size, making installation in any type of box easier, even in the smallest ones.
- Symmetrical positioning of the bars, allows cabling evenly distributed around the sides of the block.
- The bolt for anchoring to the DIN track guarantees maximum safety and reliability.
- In compliance with:
 - EN60998-1: Series 50A/ 100A / 125A
 - EN60947-1: Series 160A

Tetrapolars, 50/63A

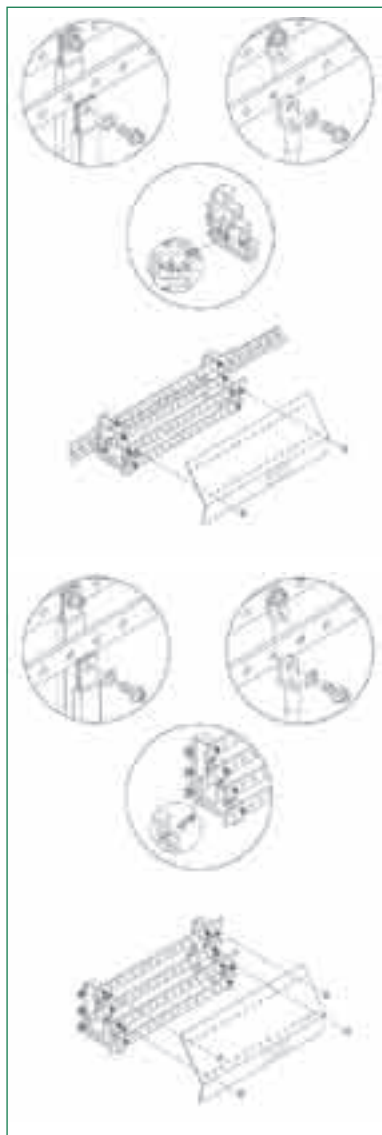
Item	Code	EAN 13	Number of holes per pole & Ø in mm.	Flexible conductor capacity	Package
BD506374	0776262	8426487008582	5xØ5,3 2xØ0,6	1,5-10 1,5-10	4/48
BD5063114	0776263	8426487008674	9xØ5,3 2xØ6	1,5-10 1,5-10	2//24

Tetrapolars, 100/125A

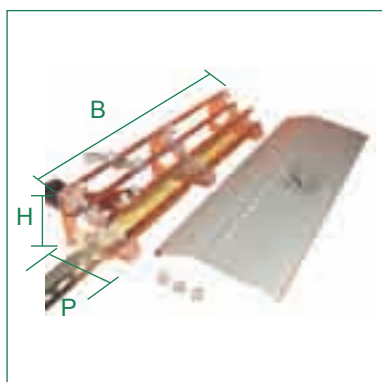
Item	Code	EAN 13	Number of holes per pole & Ø in mm.	Flexible conductor capacity	Package
BD10012574	0776267	8426487008711	5xØ6 1xØ8 1xØ9	1,5-10 4-25 6-35	1/12
BD100125114	0776268	8426487008728	7xØ6 2xØ8 2xØ9	1,5-10 4-25 6-35	1/12
BD100125154	0776269	8426487008735	1xØ6 2xØ8 2xØ9	1,5-10 4-25 6-35	1/12

Tetrapolars, 100/125A

Item	Code	EAN 13	Number of holes per pole & Ø in mm.	Flexible conductor capacity	Package
BD12516084	0776290	8426487008742	5xØ7 1xØ8 1xØ9 1xØ12	2,5-16 4-25 6-35 10-50	1/6
BD125160134	0776291	8426487008759	8xØ7 2xØ8 2xØ9 1xØ12	2,5-16 4-25 6-35 10-50	1/6
BD125160184	0776292	8426487008766	4xØ6 9xØ7 2xØ8 2xØ9 1xØ12	1,5-10 2,5-16 4-25 6-35 10-50	1/6

BOXBARRA. Distribution blocks with copper bus bar.


- Distribution blocks manufactured with copper bars, screw mount.
- Accepts copper bus bars, flexible metal bus bars and cables with copper terminal ends.
- All models are four-pole, between 125 and 400 A.
- Models up to 250 A are mountable on DIN rail or on metal frame.
- The 400 A models can only be mounted on frames.
- Polycarbonate supports that incorporate pieces for a rapid assembly of the protective cover.
- Top protective PVC cover which is mounted using plastic manually introduced screws.
- High-resistance raw ETP copper bars, with drill holes for M5, M6 and M8 screw threads depending on the model.
- All necessary screws and washers are supplied in plastic bags.
- Galvanised steel screws (M5x12 and M6x15) with 8 mm hexagonal head to be inserted with a Phillips screwdriver.
- Anti-screw toothed washers providing protection against potential vibration.
- Manufactured in compliance with EN 60947.1 and EN 60947.7.1 regulations.

Distribution blocks up to 250 A. DIN Rail or frame


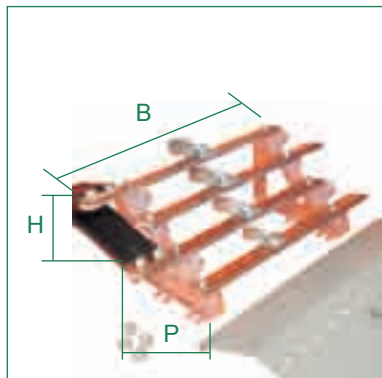
Models up to 250 A can be mounted on DIN rail or frame.

Item	Code	EAN 13	Amp.	Copper bars	N° of holes per bar	N° of Screws and washers	No. of brackets	Pack
BBD1256	0776130	8426487761302	125	12x4	6 M5	20 M5	2	2
BBD12511	0776131	8426487761319	125	12x4	11 M5	40 M5	2	2
BBD16011	0776132	8426487761326	160	15x4	11 M5	40 M5	2	2
BBD16017	0776133	8426487761333	160	15x4	17 M5	60 M5	3	1
BBD25011	0776134	8426487761340	250	16x6	10 M6 1 M8	40 M6 4 M8	2	2
BBD25017	0776135	8426487761357	250	16x6	16 M6 1 M8	80 M6 4 M8	3	1

Dimensions (mm).

Item	B	P	H
BBD 1256	183	135	74
BBD 12511	280	135	74
BBD 16011	280	135	74
BBD 16017	410	135	74
BBD 25011	280	135	74
BBD 25017	410	135	74

400 A Distribution blocks. Frame mounted.



400 A models can only be mounted on metallic frames.

Item	Code	EAN 13	Amp.	Cooper Bars	Nº de orificios por Bar	Nº de tornillos y arandelas	Nº de soportes	Pack
BB4006	0776136	8426487761364	400	25x6	5 M6 1 M8	20 M6 4 M8	2	2
BB40011	0776137	8426487761371	400	25x6	10 M6 1 M8	40 M6 4 M8	2	2
BB40017	0776138	8426487761388	400	25x6	16 M6 1 M8	60 M6 4 M8	3	1

Dimensions (mm).

Item	B	P	H
BB4006	202	175	110
BB40011	299	175	110
BB40017	410	175	110

BOXCOMP. User-design distribution blocks.

- Distribution elements designed so that users can create their own designs to suit their exact requirements.
- The same materials as those that are used in the mounted blocks, supplied separately.

Copper bus bars with drilled holes.

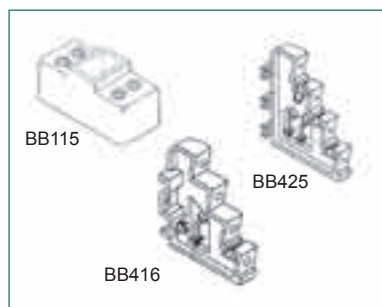


Item	Code	EAN 13	Amp.	Bar Cooper	Long. cm	Hole	Distance between holes (mm)	Section	Pack
BCF122	0776270	8426487762705	65	12x2	200	M5	19	24	30
BCF124	0776271	8426487762712	125	12x2	175	M5	19	48	15
BCF154	0776272	8426487762729	160	15x4	175	M5	19	60	15
BCF205	0776273	8426487762736	250	20x5	175	M6	19	100	8
BCF256	0776274	8426487762743	400	25x6	175	M6	19	150	6

Copper bus bars without drilled holes.



Item	Code	EAN 13	Amp.	Cooper Bars	Length cm	Weight gr	Section	Pack
BC122	0776275	8426487762750	65	12x2	200	426	24	30
BC124	0776276	8426487762767	125	12x4	200	852	48	15
BC154	0776277	8426487762774	160	15x4	200	1066	60	15
BC205	0776278	8426487762781	250	20x5	200	1776	100	8
BC256	0776279	8426487762798	400	25x6	200	2664	150	6



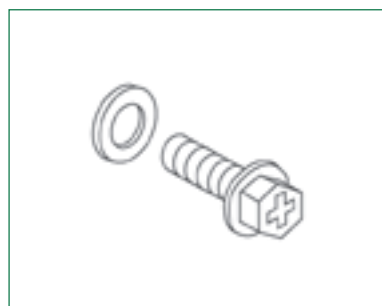
Bar mounting brackets

Item	Code	EAN 13	Description	Pack
BB115	0776140	8426487761401	2 one-pole brackets for mounting on frame + 4 screws	2-20
BB416	0776141	8426487761418	2 four-pole step-like brackets for mounting on DIN rails or frame + 4 screws with nuts + 2 hex bolt heads	2-10
BB425	0776142	8426487761425	2 tetrapolar step-like brackets for mounting on frame + 4 screws with nuts + 4 hex bolt heads	2-10



Protective covers.

Item	Code	EAN 13	Length	Description	Pack
BB2150	0776143	8426487761432	1m	Tapa de protección para soporte BB416	2-10
BB2200	0776144	8426487761449	1m	Tapa de protección para soporte BB425	2-10



Screws.

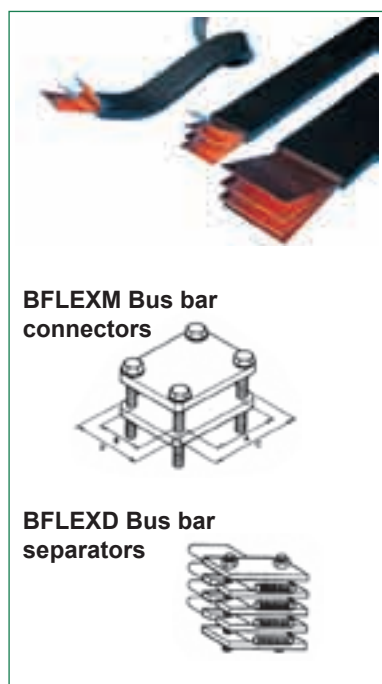
Item	Code	EAN 13	Description	Pack
BBM59	0776145	8426487761456	Bag of 100 M5x9 hexagonal head Phillip's-slotted screws and 100 Ø12 toothed washers.	1-10
BBM610	0776146	8426487761463	Bag of 100 M6x10 hexagonal head Phillip's-slotted screws and 100 Ø14 toothed washers.	1-10
BBBM812	0776147	8426487761470	Bag of 100 M8x12 hexagonal head Phillip's-slotted screws and 50 Ø15 toothed washers.	1-15

BOXFLEX. Flexible insulated copper metal bus bars.

- Flexible insulated copper, black vinyl bus bars.
- Fire-resistant insulation in compliance with UL 94V0.
- Special self-extinguishing, halogen-free insulated bar, please consult.
- Bus bars length: 2m

Item	Code	EAN 13	Description	Pack/m
BFLEX154	0776280	8426487762804	Bus bar 15, 5x0, 8x4: 49.6 mm ² section, current 50°C: 295 A	8
BFLEX202	0776281	8426487762811	Bus bar 20x1x2: 40 mm ² section, current 50°C: 270 A	8
BFLEX203	0776282	8426487762828	Bus bar 20x1x3: 60 mm ² section, current 50°C: 360 A	8
BFLEX245	0776283	8426487762835	Bus bar 24x1x5: 120 mm ² section, current 50°C: 530 A	8
BFLEX323	0776284	8426487762842	Bus bar 32x1x3: 96 mm ² section, current 50°C: 460 A	8
BFLEX325	0776285	8426487762859	Bus bar 20x1x5: 160 mm ² section, current 50°C: 610 A	8

Item	Code	EAN 13	Description	Pack
BFLEXM21	0776286	8426487762866	Bus bar connector; 23x18 mm usable; M6x30 screws	4
BFLEXM43	0776287	8426487762873	Bus bar connector; 42x33 mm usable; M6x40 screws	4
BFLEXD20	0776288	8426487762880	Bus bar separator up to 20 mm.	4
BFLEXD32	0776289	8426487762897	Bus bar separator from 24-32 mm.	4



Equipotential connector rods.



- Assembly on DIN rail.
- For ground or neutral connections.
- Grey-coloured polyamide mount, brass connector rod and zinc-plated steel screws.

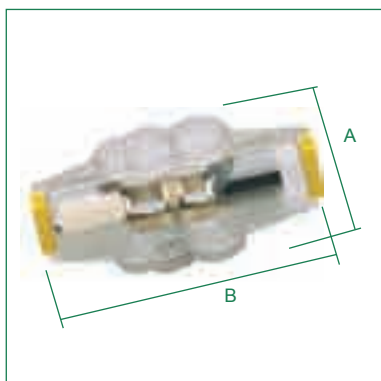
Item	Code	EAN 13	Section conductor mm ²	N° conductors	Ø holes mm	Package
167	0776233	8426487762330	1,5-16	7	7xØ6	2/32
1614	0776235	8426487762354	1,5-16	14	14xØ6	2/32
1628	0776237	8426487762378	1,5-16 4-25	24 4	24xØ6 4xØ7,5	1/16

Through-wire taps.



- To perform shunting without interrupting the main line cable.
- The main cable is uncovered and fitted into one of the terminal ends. The shunting cables are placed at the other end.
- Connective part made from brass and insulating sheath from clear polycarbonate.
- Compliant with IN 60998-2-1 500 V Standards.

Item	Code	EAN 13	Section nominal	Cables capacity	Package
BK 616	0776242	8426487762422	2x16 mm ²	1x16 mm ² + 1x16 mm ² 1x16 mm ² + 1x10 mm ² 1x16 mm ² + 2x6 mm ² 1x16 mm ² + 4x4 mm ²	2/32
BK 635	0776244	8426487762446	2x35 mm ²	1x35 mm ² + 1x35 mm ² 1x35 mm ² + 1x25 mm ² 1x35 mm ² + 2x16 mm ² 1x35 mm ² + 3x16 mm ²	2/32
BK 650	0776246	8426487762460	2x50 mm ²	1x50 mm ² + 1x50 mm ² 1x50 mm ² + 1x35 mm ² 1x50 mm ² + 2x25 mm ² 1x50 mm ² + 3x10 mm ²	1/16
BK 670	0776248	8426487762484	2x70 mm ²	1x70 mm ² + 1x70 mm ² 1x70 mm ² + 1x50 mm ² 1x70 mm ² + 2x35 mm ² 1x70 mm ² + 4x16 mm ²	1/16

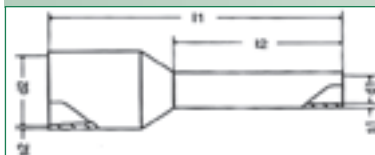


Dimensions (mm).

Item	A	B
BK 616	48	64
BK 635	52	80
BK 650	57	88
BK 670	61	93

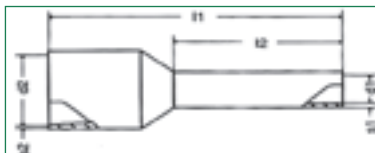
Pre-insulated silver-plated wire end sleeves. Dimensions as per DIN 46228.

Pre-insulated in polyamide



Item	Code	EAN 13	Section wire mm ²	Dimensions mm						Package
				l1	l2	d1	s1	d2	s2	
AI 0,25/ 6 Yellow	0779000	8426487790005	0,25-0,34	10,50	6,00	0,80	0,25	2,00	0,25	5x100*
AI 0,5/ 8 White	0779001	8426487790012	0,36-0,5	13,50	8,00	1,10	0,15	2,50	0,25	5x100*
AI 0,75/ 8 Blue	0779005	8426487790050	0,75	14,00	8,00	1,30	0,15	2,80	0,25	5x100*
AI 1/ 8 Red	0779008	8426487790081	1	14,50	8,00	1,50	0,15	3,00	0,30	5x100*
AI 1,5/ 8 Black	0779010	8426487790104	1,5	14,50	8,00	1,80	0,15	3,40	0,30	5x100*
AI 1,5/18 Black	0779012	8426487790128	1,5	24,50	18,00	1,80	0,15	3,40	0,30	5x100*
AI 2,5/ 8 Grey	0779015	8426487790159	2,5	15,00	8,00	2,30	0,15	4,20	0,30	5x100*
AI 2,5/18 Grey	0779017	8426487790173	2,5	25,00	18,00	2,30	0,15	4,20	0,30	5x100*
AI 4/10 Orange	0779020	8426487790203	4	17,50	10,00	2,90	0,20	4,80	0,30	5x100*
AI 4/18 Orange	0779022	8426487790227	4	26,00	18,00	2,90	0,20	4,80	0,30	100
AI 6/12 Green	0779025	8426487790258	6	20,00	12,00	3,60	0,20	6,20	0,30	100
AI 6/18 Green	0779027	8426487790272	6	26,00	18,00	3,60	0,20	6,20	0,30	100
AI 10/12 Brown	0779030	8426487790302	10	21,00	12,00	4,60	0,20	7,50	0,30	100
AI 10/18 Brown	0779032	8426487790326	10	27,00	18,00	4,60	0,20	7,50	0,30	100
AI 16/12 White	0779035	8426487790357	16	23,00	12,00	6,00	0,20	8,80	0,40	100
AI 16/18 White	0779036	8426487790364	16	29,00	18,00	6,00	0,20	8,80	0,40	100
AI 25/16 Black	0779040	8426487790401	25	29,00	16,00	7,50	0,20	11,00	0,50	50
AI 25/22 Black	0779044	8426487790449	25	35,00	22,00	7,50	0,20	11,00	0,50	50
AI 35/16 Beige	0779045	8426487790456	35	30,00	16,00	8,50	0,20	12,50	0,50	50
AI 35/25 Beige	0779048	8426487790487	35	39,00	25,00	8,50	0,20	12,50	0,50	50
AI 50/20 V.Olive	0779050	8426487790500	50	36,00	20,00	10,50	0,30	15,00	0,60	50
AI 50/25 V.Olive	0779053	8426487790531	50	41,00	25,00	10,50	0,30	15,00	0,60	50

* Supplied in 5 bags of 100, units in a row and easily separable.

Pre-insulated in polyamide,
colour as per DIN 47002.


Item	Code	EAN 13	Section wire mm ²	Dimensions mm						Package
				l1	l2	d1	s1	d2	s2	
AI 0,25/ 6 Yellow	0779000	8426487790005	0,25-0,34	10,50	6,00	0,80	0,25	2,00	0,25	5x100*
AI 0,5/ 8 White	0779001	8426487790012	0,36-0,5	13,50	8,00	1,10	0,15	2,50	0,25	5x100*
AI 0,75/ 8 Grey	0779105	8426487791057	0,75	14,00	8,00	1,30	0,15	2,80	0,25	5x100*
AI 1/ 8 Red	0779008	8426487790081	1	14,50	8,00	1,50	0,15	3,00	0,30	5x100*
AI 1,5/ 8 Black	0779010	8426487790104	1,5	14,50	8,00	1,80	0,15	3,40	0,30	5x100
AI 1,5/18 Black	0779012	8426487790128	1,5	24,50	18,00	1,80	0,15	3,40	0,30	5x100*
AI 2,5/ 8 Blue	0779115	8426487791156	2,5	15,00	8,00	2,30	0,15	4,20	0,30	5x100*
AI 2,5/18 Blue	0779117	8426487791170	2,5	25,00	18,00	2,30	0,15	4,20	0,30	5x100*
AI 4/10 Grey	0779120	8426487791200	4	17,50	10,00	2,90	0,20	4,80	0,30	5x100*
AI 4/20 Grey	0779122	8426487425235	4	26,00	18,00	2,90	0,20	4,80	0,30	100
AI 6/12 Yellow	0779125	8426487791255	6	20,00	12,00	3,60	0,20	6,20	0,30	100
AI 6/18 Yellow	0779127	8426487791279	6	26,00	18,00	3,60	0,20	6,20	0,30	100
AI 10/12 Red	0779130	8426487791309	10	21,00	12,00	4,60	0,20	7,50	0,30	100
AI 10/18 Red	0779132	8426487791323	10	27,00	18,00	4,60	0,20	7,50	0,30	100
AI 16/12 Blue	0779135	8426487791354	16	23,00	12,00	6,00	0,20	8,80	0,40	100
AI 16/18 Blue	0779136	8426487791361	16	29,00	18,00	6,00	0,20	8,80	0,40	100
AI 25/16 Yellow	0779140	8426487791408	25	29,00	16,00	7,50	0,20	11,00	0,50	50
AI 25/22 Yellow	0779144	8426487791446	25	35,00	22,00	7,50	0,20	11,00	0,50	50
AI 35/16 Red	0779145	8426487791453	35	30,00	16,00	8,50	0,20	12,50	0,50	50
AI 35/25 Red	0779148	8426487791484	35	39,00	25,00	8,50	0,20	12,50	0,50	50
AI 50/20 Blue	0779150	8426487791507	50	36,00	20,00	10,50	0,30	15,00	0,60	50
AI 50/25 Blue	0779153	8426487791538	50	41,00	25,00	10,50	0,30	15,00	0,60	5

* Supplied in 5 bags of 100, units in a row and easily separable.

Un-insulated silver-plated wire end sleeves. Dimensions as per DIN 46228.

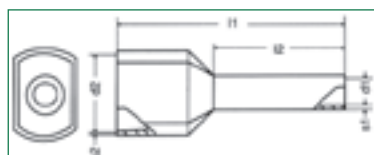
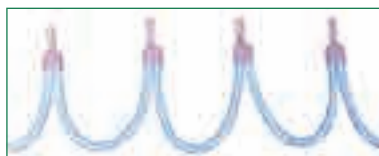
Un-insulated



Item	Code	EAN 13	Section wire mm ²	Dimensions				Pack
				l1	d1	d2	s	
A 0,5/ 6	0779501	8426487795017	0,36-0,5	6	1	2,1	0,15	1.000
A 0,75/ 6	0779502	8426487795024	0,75	6	1,2	2,3	0,15	1.000
A 0,75/10	0779503	8426487795031	0,75	10	1,2	2,3	0,15	1.000
A 1/ 6	0779505	8426487795055	1	6	1,4	2,5	0,15	1.000
A 1/10	0779507	8426487795079	1	10	1,4	2,5	0,15	1.000
A 1,5/ 7	0779510	8426487795109	1,5	7	1,7	2,8	0,15	1.000
A 1,5/10	0779512	8426487795123	1,5	10	1,7	2,8	0,15	1.000
A 2,5/ 7	0779515	8426487795154	2,5	7	2,2	3,4	0,15	1.000
A 2,5/12	0779517	8426487795178	2,5	12	2,2	3,4	0,15	1.000
A 4/ 9	0779520	8426487795208	4	9	2,8	4	0,20	1.000
A 4/12	0779522	8426487795222	4	12	2,8	4	0,20	1.000
A 6/10	0779525	8426487795253	6	10	3,5	4,7	0,20	1.000
A 6/18	0779528	8426487795284	6	18	3,5	4,7	0,20	500
A 10/12	0779530	8426487795307	10	12	4,5	5,8	0,20	500
A 10/18	0779532	8426487795321	10	18	4,5	5,8	0,20	500
A 16/12	0779535	8426487795352	16	12	5,8	7,5	0,20	500
A 16/18	0779538	8426487795383	16	18	5,8	7,5	0,20	500
A 25/12	0779540	8426487795406	25	12	7,3	9,5	0,20	100

Twin wire end sleeves to crimp two wires together.

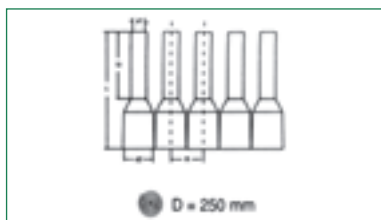
- The wider, rectangular-shaped pre-insulated part allows to crimp two wires in the same end sleeve.



Item	Code	EAN 13	Section wire mm ²	Colour	Dimensions en mm						Package
					l1	l2	d1	s1	d2	s2	
Al 2 x 0,5/ 8	0779081	8426487790814	2 x 0,5	White	15,0	8,0	1,50	0,15	2,3/4,5	0,25	5x100
Al 2 x 0,75/ 8	0779082	8426487790821	2 x 0,75	Grey	15,0	8,0	1,80	0,15	2,6/5,1	0,25	5x100
Al 2 x 1/ 8	0779084	8426487790845	2 x 1	Red	15,0	8,0	2,05	0,15	3,2/5,1	0,30	5x100
Al 2 x 1,5/ 8	0779086	8426487790869	2 x 1,5	Black	16,0	8,0	2,30	0,15	3,5/6,4	0,30	5x100
Al 2 x 2,5/10	0779088	8426487790883	2 x 2,5	Blue	18,5	10,0	2,90	0,20	4,0/7,5	0,30	5x100
Al 2 x 4/12	0779091	8426487790913	2 x 4	Grey	23,0	12,0	3,80	0,20	4,9/8,6	0,30	100
Al 2 x 6/14	0779092	8426487790920	2 x 6	Yellow	25,0	14,0	4,90	0,20	5,8/9,6	0,40	100
Al 2 x 10/14	0779094	8426487790944	2 x 10	Red	26,0	14,0	6,50	0,20	7,0/12,6	0,40	100
Al 2 x 16/16	0779093	8426487790937	2 x 16	Blue	31,0	16,0	8,50	0,20	8,8/16,6	0,50	100

Strip wire end terminals. Polyamide insulation.

- To be used with automatic machines.
- Dimensions as per DIN 46228 T4.



Item	Code	EAN 13	Section wire mm ²	Dimensions					Cont. roll
				l1	l2	d1	d2	R	
Al 0,5/ 8 White	0779302	8426487793020	0,36-0,5	14,5	8,0	1,1	2,6	3,5	1.000
Al 0,75/ 8 Grey	0779303	8426487793037	0,75	14,5	8,0	1,3	2,8	3,6	1.000
Al 1/ 8 Red	0779304	8426487793044	1	14,5	8,0	1,5	3,0	3,9	1.000
Al 1,5/ 8 Black	0779305	8426487793051	1,5	14,5	8,0	1,8	3,4	4,2	1.000
Al 2,5/ 8 Blue	0779306	8426487793068	2,5	14,5	8,0	2,3	4,2	5,0	500

Boxes with assorted insulated cord-end terminals.

With crimping tool for 0,25 to 2,5 mm².

Item	Code	EAN 13	Contents
S 05252 Z	0779097	8426487790975	100 x Al 0,5 /8 100 x Al 0,75 /8 150 x Al 1 /8 150 x Al 1,5 /8 100 x Al 2,5 /8 50 x Al 4 /10

With crimping tool for 0,5 to 16 mm².

Item	Code	EAN 13	Contents
S 0112 Z	0779090	8426487790906	200 x Al 0,5 /8 200 x Al 0,75 /8 200 x Al 1 /8 200 x Al 1,5 /8 200 x Al 2,5 /8 100 x Al 4 /10 50 x Al 6 /12 30 x Al 10 /12 20 x Al 16 /12 10 x Al 25 /16

Compartmentalised with rotating lid.

Item	Code	EAN 13	Contents
S 18001	0779095	8426487790951	50 x Al 0,5 /8 100 x Al 0,75 /8 100 x Al 1 /8 100 x Al 1,5 /8 50 x Al 2,5 /8
S 18002	0779096	8426487790968	50 x Al 4 /10 20 x Al 6 /12 20 x Al 10 /12 10 x Al 16 /12

With sliding lids for type selection.

Item	Code	EAN 13	Colour	Contents
S 20202 RD	0779098	8426487011650	Red	50 x Al 0,5 /8 100 x Al 0,75 /8 100 x Al 1 /8 100 x Al 1,5 /8 50 x Al 2,5 /8
S 20302 RD	0779099	8426487011667	Red	50 x Al 4 /10 20 x Al 6 /12 20 x Al 10 /12 10 x Al 16 /12

Note: the boxes can be supplied in other colours, please contact us.



Crimping tools for cord-end terminals.**153 FE**

Crimp geometry

**Punching crimper.**

Item	Code	EAN 13	Sections (mm ²)	Package
153 FE	0779590	8426487795901	0,25 - 2,5	1
C0560	0779592	8426487795925	0,25 - 6	1

**9039 A
9039**

Crimp geometry

**Trapezoidal crimping tools.**

- With rack and lock-in system to avoid incorrect crimpings.

Item	Code	EAN 13	Sections (mm ²)	Package
9039 A	0775404	8426487754045	0,25 - 6	1
9039	0775405	8426487754052	6 - 16	1

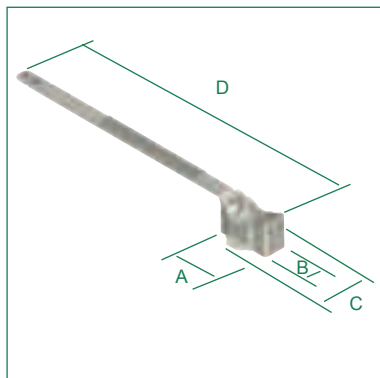
EEB

Crimp geometry

**MINIFORCE-system tools.**

- Ergonomic design requires minimum hand effort.
- With rack and lock-in system to avoid incorrect crimpings.

Item	Code	EAN 13	Sections (mm ²)	Package
EEB 0160	0779593	8426487795932	0,1 - 6	1
EEB 4010	0779594	8426487795949	4 - 10	1
EEB 1025	0779595	7393487014329	10 - 25	1
EEB 3550	0779596	7393487014312	35 - 50	1

FLEXY-BLOCK Clamp**Material characteristics:**

- New polyamide clamp for cable tubes, with concave support for more stability in the installation stage.
- Avoids weight deformations than can put the safety of the installation at risk.
- Patented system.
- Operating temperature: -40°C to +125°C.
- Also in black colour.

Grey Colour

Item	Code	EAN 13	Ø máx. (mm) clamp	Dimensions				Package
				A	B	C	D	
SG0820	0776293	8426487008797	20	25	15	20	139	120
SG0832	0776294	8426487008810	32	25	15	20	172	96
SG1650	0776295	8426487008827	50	25	15	20	228	80
SG1663	0776296	8426487008834	63	25	15	20	269	48

6.6 Polyamide cable ties.

- Material: polyamide 6.6 for indoor installations.
- Usage temperature: -40°C a 85°C
-40°F a 185°F
- Self-extinguishing: V2 in compliance with UL 94.
- Tensile strength in compliance with MIL-S 23190E.



**Underwriters
Laboratories Inc.**
File E 118226 (R)

Smooth, rounded edges do not cut hands or insulation and are comfortable to work with.

Bent tip allowing for easier pickup, insertion and pull-up.

Closely spaced positive-locking teeth allow fine adjustment to tie bundles of all sizes.

Head and pawl are integrally moulded (just 1 piece) for added strength and durability

Self-locking, one-piece, low-profile head conserves space.

Releasable 6.6. polyamide ties

White natural colour.

Item	Code	Ø máx. (mm) clamp	Min. tensile strength (Kg)	Dimensions		Package*
				Width	Length	
NATURAL CABLE 2,5 x 102	07 73000	25	8	2,5	102	2.000
NATURAL CABLE 2,5 x 140	07 73001	38	8	2,5	140	2.000
NATURAL CABLE 2,5 x 162	07 73002	45	8	2,5	162	2.000
NATURAL CABLE 2,5 x 203	07 73003	50	8	2,5	203	2.000
NATURAL CABLE 3,6 x 140	07 73004	37	18	3,6	140	2.000
NATURAL CABLE 3,6 x 204	07 73005	57	18	3,6	204	2.000
NATURAL CABLE 3,6 x 302	07 73006	87	18	3,6	302	1.000
NATURAL CABLE 3,6 x 372	07 73007	110	18	3,6	372	1.000
NATURAL CABLE 4,8 x 160	07 73008	43	22	4,8	160	1.000
NATURAL CABLE 4,8 x 186	07 73009	51	22	4,8	186	1.000
NATURAL CABLE 4,8 x 200	07 73010	56	22	4,8	200	1.000
NATURAL CABLE 4,8 x 286	07 73011	83	22	4,8	286	1.000
NATURAL CABLE 4,8 x 368	07 73012	109	22	4,8	368	1.000
NATURAL CABLE 7,6 x 202	07 73013	54	54	7,6	202	1.000
NATURAL CABLE 7,6 x 292	07 73014	82	54	7,6	292	1.000
NATURAL CABLE 7,6 x 368	07 73015	108	54	7,6	368	1.000
NATURAL CABLE 7,6 x 540	07 73016	162	54	7,6	540	500
NATURAL CABLE 12,4 x 240	07 73017	60	114	12,4	240	50
NATURAL CABLE 12,4 x 498	07 73018	152	114	12,4	498	50
NATURAL CABLE 12,4 x 802	07 73019	254	114	12,4	802	50

* Supplied in bags of 100 units, except 12.6 mm wide models, which are supplied in bags of 50 units.

Black Colour.

Item	Code	Ø máx. (mm) clamp	Min. tensile strength (Kg)	Dimensions		Package*
				Width	Length	
BLACK CABLE TIES 2,5 x 102	07 73020	25	8	2,5	102	2.000
BLACK CABLE TIES 2,5 x 140	07 73021	38	8	2,5	140	2.000
BLACK CABLE TIES 2,5 x 162	07 73022	45	8	2,5	162	2.000
BLACK CABLE TIES 2,5 x 203	07 73023	50	8	2,5	203	2.000
BLACK CABLE TIES 3,6 x 140	07 73024	37	18	3,6	140	2.000
BLACK CABLE TIES 3,6 x 204	07 73025	57	18	3,6	204	2.000
BLACK CABLE TIES 3,6 x 302	07 73026	87	18	3,6	302	1.000
BLACK CABLE TIES 3,6 x 372	07 73027	110	18	3,6	372	1.000
BLACK CABLE TIES 4,8 x 160	07 73028	43	22	4,8	160	1.000
BLACK CABLE TIES 4,8 x 186	07 73029	51	22	4,8	186	1.000
BLACK CABLE TIES 4,8 x 200	07 73030	56	22	4,8	200	1.000
BLACK CABLE TIES 4,8 x 286	07 73031	83	22	4,8	286	1.000
BLACK CABLE TIES 4,8 x 368	07 73032	109	22	4,8	368	1.000
BLACK CABLE TIES 7,6 x 202	07 73033	54	54	7,6	202	1.000
BLACK CABLE TIES 7,6 x 292	07 73034	82	54	7,6	292	1.000
BLACK CABLE TIES 7,6 x 368	07 73035	108	54	7,6	368	1.000
BLACK CABLE TIES 7,6 x 540	07 73036	162	54	7,6	540	500
BLACK CABLE TIES 12,4 x 240	07 73037	60	114	12,4	240	50
BLACK CABLE TIES 12,4 x 498	07 73038	152	114	12,4	498	50
BLACK CABLE TIES 12,4 x 802	07 73039	254	114	12,4	802	50

* Supplied in bags of 100 units, except 12.6 mm wide models, which are supplied in bags of 50 units.


Releasable 6.6. polyamide ties

- New ties with a revolutionary release system that allows them to be used again and again. Simple mechanism that can be operated with one finger.
- Colour: black (for outdoor or indoor) or white (indoor).

Natural Colour

Item	Code	EAN 13	Ø máx. (mm) clamp	Min. tensile strength (Kg)	Dimensions		Package
					Width	Length	
7,5 x 200 R NAT	0775940	8426487759408	50	30	7,5	200	100
7,5 x 250 R NAT	0775942	8426487759422	65	30	7,5	250	100
7,5 x 300 R NAT	0775944	8426487759446	100	30	7,5	300	100

Colour Black.

Item	Code	EAN 13	Ø máx. (mm) clamp	Min. tensile strength (Kg)	Dimensions		Package
					Width	Length	
7,5 x 200 R BK	0775941	8426487759415	50	30	7,5	200	100
7,5 x 250 R BK	0775943	8426487759439	65	30	7,5	250	100
7,5 x 300 R BK	0775945	8426487759453	100	30	7,5	300	100

With marker. Natural colour.



Item	Code	EAN 13	Ø máx. (mm) clamp	Min. tensile strength (Kg)	Dimensions		Package
					Width	Length	
2,5 x 100 BSI	0775910	8426487759101	20	8,16	2,5	100	100
2,5 x 200 BSI	0775900	8426487759002	50	8,16	2,5	200	100
2,5 x 110 BSE	0775911	8426487759118	20	8,16	2,5	110	100
2,5 x 210 BSE	0775902	8426487759026	52	8,16	2,5	210	100
4,8 x 190 BS	0775904	8426487759040	48	22	4,8	190	100
4,8 x 270 BS	0775906	8426487759064	68	22	4,8	270	100



With fixing hole. Natural colour.

Item	Code	EAN 13	Ø máx. (mm) clamp	Ø Hole	Dimensions		Package
					Width	Length	
3,6 x 150 BO	0775950	8426487759507	32	4,5	3,6	150	100
4,8 x 200 BO	0775953	8426487759538	54	4,5	4,8	200	100
7,8 x 200 BO	0775956	8426487759569	50	6,5	7,8	200	100
7,8 x 300 BO	0775957	8426487759576	75	6,5	7,8	300	100
7,8 x 380 BO	0775959	8426487759590	104	6,5	7,8	380	100

For cable trays. Black colour.



- Its centre part is sectioned, the two ends are placed in hammer-shaped fashion in the grooves of the tray, fixing the cables.

Item	Code	EAN 13	Min. tensile strength (Kg)	Dimensions			Package
				Width	Length	Tail	
7,8x24+270 BB	0775346	8426487753468	55	7,8	24	270	100
12,6x50+275 BB	0775347	8426487753475	110	12,6	50	275	100

For panel fixing. Natural colour.


Item	Code	EAN 13	Ø Opening	Thickness panel	Dimensions	Package
3,5 x 100 BP	0775930	8426487759309	5,2	2,8	3,5x150	100
4,8 x 200 BP	0775932	8426487759323	6,3	3,6	4,8x200	100

Heavy-Duty SUPER TENAX ties.


- Manufactured from 6.6. polyamide.
- Double flat head to achieve maximum resistance (single in 9 x 200 model).
- Specially designed for severe strain.
- Self-extinguishing V2 as per UL 94.
- Can be used in temperatures from -40°C to +85°C (momentary maximum: 110°C).

Item	Code	EAN 13	Ø máx. (mm) clamp	Min. tensile strength (Kg)	Dimensions		Package
					Width	Length	
9 x 200 REF BK	0775501	8426487755011	40	51	9	200	100
9 x 285 REF BK	0775502	8426487755028	70	80	9	285	100
11 x 375 REF BK	0775503	8426487755035	100	80	9	375	100

All-weather ties. 12 Polyamide.

Resistant to temperature and humidity changes. UV-ray protected.



- Withstands dry climates.
- Use temperature: from -40°C to +80°C.
- Momentary maximum temperature: 120°C.
- Self-extinguishing as per UL 94 HB.
- Compliant with the EDF HN32-S-62 Standard.
- Does not contain halogens.

Item	Code	EAN 13	Ø máx. (mm) clamp	Min. tensile strength (Kg)	Dimensions		Package
					Width	Length	
6 x 115 BTC	0775410	8426487754106	25	25	6	115	100
6 x 180 BTC	0775411	8426487754113	45	25	6	180	100
6 x 290 BTC	0775412	8426487754120	78	25	6	290	100
6 x 360 BTC	0775413	8426487754137	100	25	6	360	100
9 x 265 BTC	0775419	8426487754199	65	51	9	265	100
9 x 360 BTC	0775421	8426487754212	93	51	9	360	100
9 x 510 BTC	0775422	8426487754229	140	55	9	510	100

Tools for tightening cable ties with automatic cut.

- For ties from 2.2 to 4.8 mm. thick.
- Possible to select tightening tension.
- Tightens and cuts in just one operation.
- Manufactured from metal.

Item	Code	EAN 13	For tie Width (mm)
HB 4,8	0775401	8426487754014	2,2 mm to 4,8 mm

Tools for tightening cable ties.

- For ties from 5 to 9 mm. thick.
- Cuts by means of an independent plate.
- Manufactured from metal.

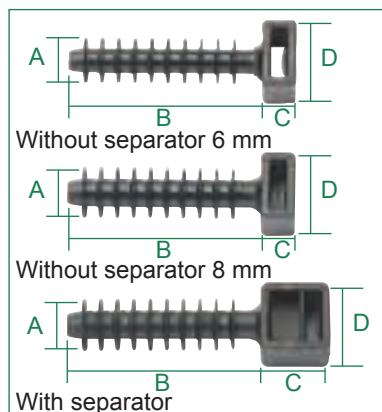
Item	Code	EAN 13	For tie Width (mm)
HB 5-9	0775402	8426487754021	5 mm to 9 mm

Tools for tightening cable ties with automatic cut.

- For ties from 7.8 to 13 mm. thick.
- Possible to select tightening pressure.
- Tightens and cuts in just one operation.
- Manufactured from metal.

Item	Code	EAN 13	For tie Width (mm)
HB 7,8-14	0775403	8426487754038	7,8 mm to 13 mm

Pressure screws in polyamide 6/6. Colour: black.



- For cable ties up to 9 mm. wide.
- Models available with and without wall separators.

Item	Code	EAN 13	Measurements (mm)				Mounting	Package
			A	B	C	D		
Taco S/D 8mm	0775458	8426487754588	10	37	6,5	9,2	Without separator	100
Taco S/D 6mm	0775457	8426487754571	8	37	6,5	9,2	Without separator	100
Taco C/D	0775459	8426487754595	10	37	13	9,2	With separator	100

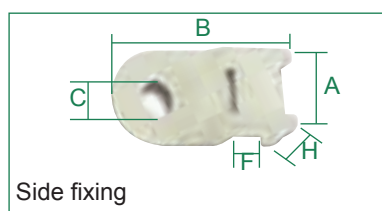
Two-way polyamide mounts. Colour: natural.



The screw mounts have a 4.3 mm. Ø hole.

Item	Code	EAN 13	Max. cable tie width	Base (mm)	Mounting	Package
BBA 19 x 19 NAT	0775467	8426487754670	3,6 mm	19x19	Adhesive	100
BBA 26,5 x 26,5 NAT	0775473	8426487754731	4,8 mm	26,5x26,5	Adhesive	100
BB 19 x 19 NAT	0775466	8426487754663	3,6 mm	19x19	Screws	100
BB 26,5 x 26,5 NAT	0775472	8426487754724	4,8 mm	26,5x26,5	Screws	100

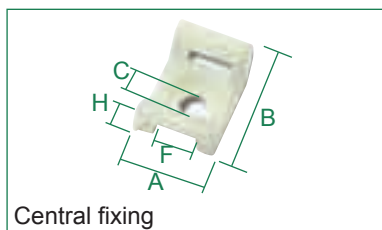
Polyamide brackets. Colour: natural



Side fixing

Lateral mounting. For cable ties up to 4.8 mm. wide.

Item	Code	EAN 13	Measurements (mm)					Package
			A	B	C	F	H	
SFS 4,8 NAT	0775460	8426487754601	10	20	4,3	5	6	100

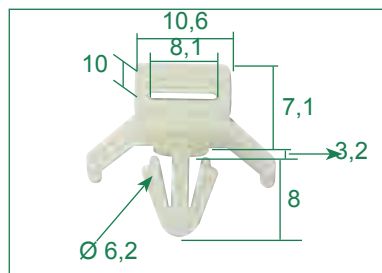


Central fixing

Central mounting. For cable ties up to 9 mm. wide.

Item	Code	EAN 13	Measurements (mm)					Package
			A	B	C	F	H	
SF 9 NAT	0775496	8426487754960	15	22,5	5	9	11	100

Opening support mount.



- Accessory for mounting cable ties to panels.

Item	Code	EAN 13	Thickness panel (max.)	Ø hole (mm)	Package
SPO 6,2	0775542	8426487755424	3,2	6,2	100

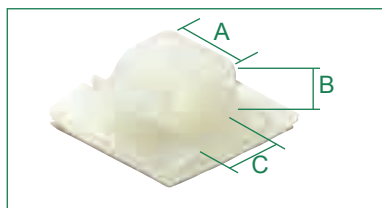
Identification plates.



- Can be used with ties with a maximum width of 4.8 mm.

Item	Code	EAN 13	Dimensions		Ø Hole	Package
			Width	Length		
PIB 26 x 16	0775409	8426487754090	16,2	26,4	5,2	100
PIB 40 x 20	0775406	8426487754069	20,5	40,3	5,1	100
PIB 60 x 25	0775407	8426487754076	25,2	60,5	4,9	100
PIB 60 x 50	0775408	8426487754083	49,9	59,9	4,9	100

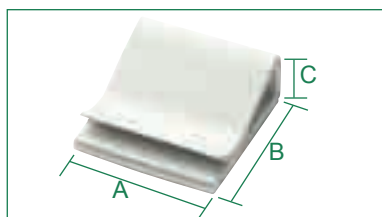
Adhesive cable mounts.



For round cables.

- Manufactured from polyamide.
- Natural colour. Also available in black.

Item	Code	EAN 13	Dimensions			Package
			A	B	C	
BCR 5 NAT	0775525	8426487755257	10	5	4,5	100
BCR 8 NAT	0775529	8426487755295	12,5	8	11	100
CCR 15 NAT	0775533	8426487755332	16	15	18	100

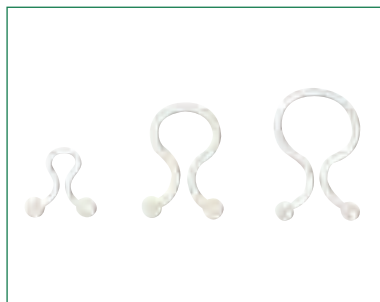


For flat cables.

- Manufactured from PVC.
- White colour.

Item	Code	EAN 13	Dimensions			Package
			A	B	C	
SAC-20	0775537	8426487755370	20	26	6,5	100
SAC-25	0775539	8426487755394	25	26	6,5	100
SAC-30	0775541	8426487755417	30	26	6,5	50

“Twist lock” clamp.



- From 6.6. polyamide.
- Reusable.
- Natural colour.

Item	Code	EAN 13	Length (mm)	Ø Min.-máx. (mm)	Package
AL 7,6 NAT	0775543	8426487755431	22,9	5,1-7,6	100
AL 10,2 NAT	0775545	8426487755455	26,2	7,6-10,2	100
AL 12,7 NAT	0775547	8426487755479	30,5	10,2-12,7	100
AL 16 NAT	0775551	8426487755516	34,5	13,5-16	100
AL 20,3 NAT	0775555	8426487755554	39,4	17,8-20,3	100

Wrapping band.



- Spiral to protect and arrange wire bundles.
- Can be branched off at any bundle point.
- Material: polyethylene.
- Maximum use temperature: 85°C.
- Self-extinguishing version UL 94 V2.



Wrapping band. Natural color.

Item	Code	EAN 13	Dimensions			Ø bundle of cables	Package
			D	E	W		
CET- 3	0775971	8426487759712	2,3	3,5	5	2 a 15	50 m
CET- 5	0775972	8426487759729	3,7	5	7	4 a 20	25 m
CET- 8	0775973	8426487759736	6,5	8	10	7 a 40	25 m
CET- 10	0775974	8426487759743	8,2	10	12	12 a 50	25 m
CET- 12	0775975	8426487759750	10	12	14	13 a 70	25 m
CET- 14	0775976	8426487759767	12	14	16	15 a 80	20 m
CET- 20	0775977	8426487759774	17	20	22	20 a 120	25 m

Wrapping band. White colour (self-extinguishing).

Item	Code	EAN 13	Dimensions			Ø bundle of cables	Package
			D	E	W		
CEB- 3	0775981	8426487759811	2,3	3,5	5	2 a 15	50 m
CEB- 5	0775982	8426487759828	3,7	5	7	4 a 20	25 m
CEB- 8	0775983	8426487759835	6,5	8	10	7 a 40	25 m
CEB-10	0775984	8426487759842	8,2	10	12	12 a 50	25 m
CEB-12	0775985	8426487759859	10	12	14	13 a 70	25 m
CEB-14	0775986	8426487759866	12	14	16	15 a 80	20 m

Wrapping band. Black colour.

Item	Code	EAN 13	Dimensions			Ø bundle of cables	Package
			D	E	W		
CEN- 3	0775991	8426487759910	2,3	3,5	5	2 a 15	50 m
CEN- 5	0775992	8426487759927	3,7	5	7	4 a 20	25 m
CEN- 8	0775993	8426487759934	6,5	8	10	7 a 40	25 m
CEN- 10	0775994	8426487759941	8,2	10	12	12 a 50	25 m
CEN- 12	0775995	8426487759958	10	12	14	13 a 70	25 m
CEN- 14	0775996	8426487759965	12	14	16	15 a 80	20 m
CEN- 20	0775997	8426487759972	17	20	22	20 a 120	25 m



Safety
and comfort



KOBAN 

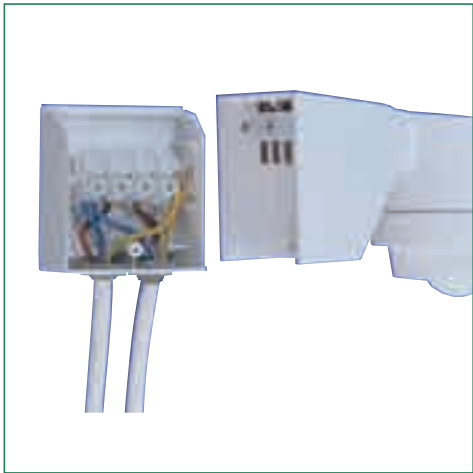
KOBAN CONTROL

Surface-mounted presence detectors



Fotomat Pro.

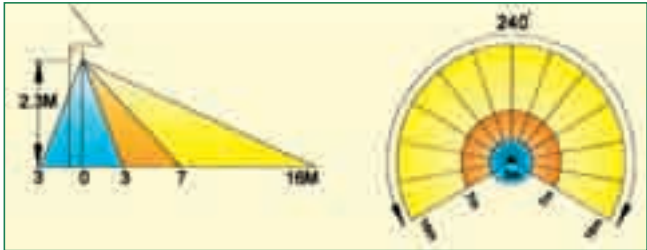
- New generation high technology presence detectors.
- Surface-mounted on wall or ceiling (possibility of corner mounting with optional accessory).
- 120° swivel head for the correct positioning of the detector.
- Adjustable 3D lens for exterior detection between 3 and 16m (240° or 360° depending on model) and interior detection of 360° and 3m radius with no blind spots.
- Protective lens screens to cover undesired detection areas.
- Protection grade IP45.
- Adjustment of lux level activation.
- Adjustable timing between 6 seconds and 12 minutes.
- Adjustable range of 3 to 16 metres.
- Load: 14 A MAX. ($\cos\phi = 1$)
3000 W for incandescent loads.
2300 W for halogen loads.
600 W for fluorescent loads.



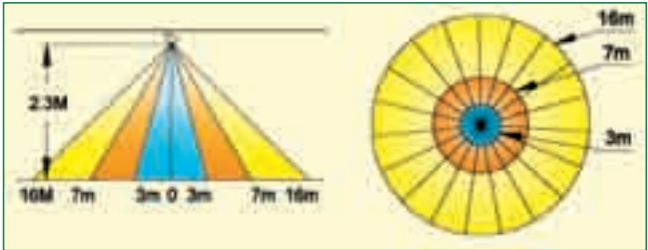
Pluggable terminals for easy and fast connection, wireless, with an earth terminal for proper connection



Corner mounting accessory



Detection zones del Fotomat PRO 240



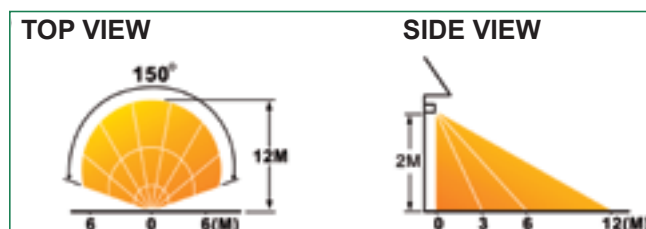
Detection zones del Fotomat PRO 360

Article	Code	EAN 13	Detection angle	Detection zones	Connection voltage
Fotomat PRO 240	0770130	8426487701308	240°	97	220-240VAC, 50Hz
Fotomat PRO 360	0770131	8426487701315	360°	124	220-240VAC, 50Hz
Accesorio esquina	0770137	8426487701377	PRO detectors series corner-mounting accessory		

Fotomat OS-186A



- Basic version presence detector for surface mounting on either wall or ceiling and valid for both embedded and surface mounts..
- 150° detection angle. Head can be positioned in 4 directions.
- Adjustable timing between 6 seconds and 12 minutes.
- Adjustment of range and lux level activation.
- Protection grade IP44.
- Maximum permitted load: 1000 W for incandescent lamps.
500 W for halogen lamps.
180 W for fluorescent lamps.



Fotomat OS-186A detection zones

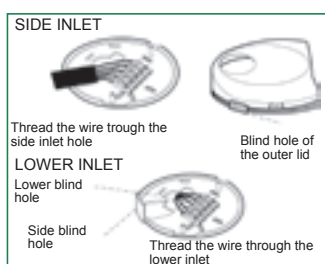
Article	Code	EAN 13	Detection angle	Max. range approx.	Connection voltage
Fotomat OS-186A	0770102	8426487701025	150°	12 m	220-240VAC, 50/60Hz

Ceiling-mounted presence detectors

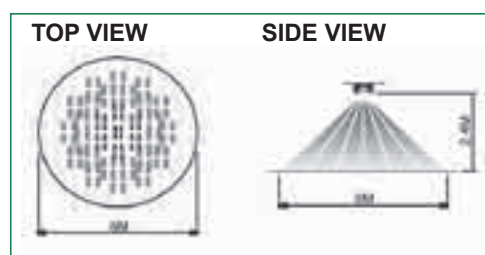


Fotomat OS-462.

- New latest technology presence detector model for ceiling mounting.
- Pluggable terminals for easy and fast connection, wireless.
- Very high resolution lens with 224 detection zones with no blind spots within its 360° detection angle, capable of detecting the tiniest movement in any direction.
- Protective lens screens to cover undesired detection areas.
- Two relays for the control of two separate outputs:
 1. Lighting relay: contact capacity 10A max. ($\cos\phi = 1$)
 2. Voltage-free relay for the control of all kinds of heaters, ventilators, air conditioning systems or security cameras: contact capacity 10A max. voltage-free ($\cos\phi = 1$).
- Maximum adjustable detection area of approximately 6m diameter installed at a height of 2.4m
- Adjustable lux level of activation.
- Adjustable timing between 6 seconds and 12 minutes for the lighting relay and between 10 seconds and 30 minutes for the voltage-free relay.
- Protection grade IP40.



Side entry or lower entry for wires



Fotomat OS-462 detection zones

Article	Code	EAN 13	Detection angle	Detection zones	Connection voltage
Fotomat OS-462	0770132	8426487701322	360°	224	220-240VAC, 50/60Hz



Fotomat OS-462A.

- Basic version of model OS-462, also for ceiling mounting.
- Same technology and technical features as model OS-462, except that model OS-462A only has one relay for controlling a single output.
- Said relay is voltage free and its contact capacity is 10A max. voltage free ($\cos\phi = 1$)
- Adjustable timing between 6 seconds and 12 minutes.

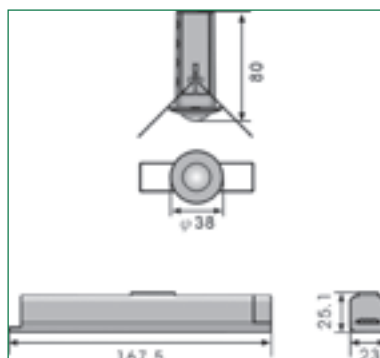
Article	Code	EAN 13	Detection angle	Detection zones	Connection voltage
Fotomat OS-462A	0770133	8426487701339	360°	224	220-240VAC, 50/60Hz

NEW



Fotomat OS-451A.

- New latest generation presence detector model for embedding in false ceilings.
- Extremely small size: only 38 mm visible diameter and the hole to be made in the ceiling must be only 30 mm diameter.
- Very high resolution lens capable of detecting the tiniest movement in any direction within its 360° detection angle with no blind spots.
- Pluggable terminals for easy and fast connection, wireless.
- Contact capacity 10A max. ($\cos\phi = 1$)
- Maximum adjustable detection area of approximately 6m diameter installed at a height of 2.4m.
- Adjustable lux level of activation.
- Adjustable timing between 6 seconds and 12 minutes.
- Protection grade IP40.



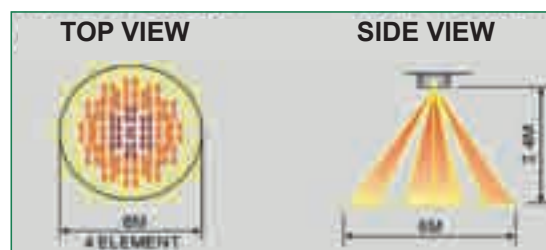
Size: only 38mm visible diameter.



Fast connection through RJ11 connectors.



Possibility of using a single power box with two sensors.



Fotomat OS-451A detection zones.

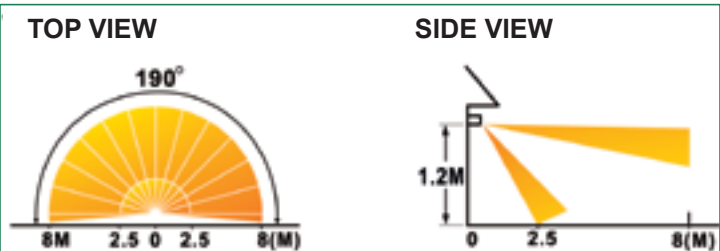
Article	Code	EAN 13	Detection angle	Connection voltage
Fotomat OS-451A	0770138	8426487003006	360°	220-240VAC, 50/60Hz

Flush-mounted presence detectors

Fotomat OS-470.



- New version of this embedded presence detector model, with relay output and three-wire connection.
- Valid for square standardised mechanism boxes, with the possibility of replacing existent manual switches.
- Adjustable range (maximum 8m.).
- Adjustable timing between 7 seconds and 15 minutes.
- 195° detection angle.
- Maximum load: 1600 W for incandescent lamps.
400 W for low-voltage halogen lamps.
400 W for fluorescent lamps



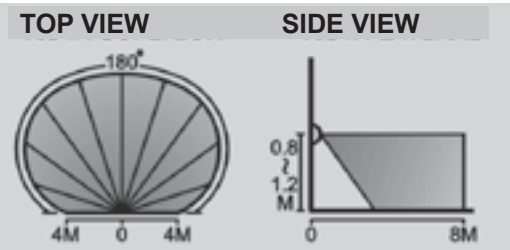
Detection zones del Fotomat OS-470.

Article	Code	EAN 13	Detection angle	Max. range approx.	Connection voltage
Fotomat OS-470	0770118	8426487701186	195°	8 m	220-240VAC, 50/60Hz



Fotomat OS-472B.

- New latest generation bivoltage (110-240VAC, 50/60Hz) presence detector model, with 180° detection angle and no blind spots.
- Valid for rectangular standardised mechanism boxes, with the possibility of replacing existent manual switches.
- Protection by means of fuse, easily replaceable.
- Invisible manual switch (OFF, AUTO, ON).
- Adjustable range (maximum 8 m.).
- Adjustable timing between 6 seconds and 12 minutes.
- Adjustable lux level ativation.
- Protection grade IP30.
- Maximum load: 20-250W (120V 60Hz), only for incandescent lamps.
40-500W (230V 50Hz), only for incandescent lamps.



Fotomat OS-472B detection zones.

Article	Code	EAN 13	Detection angle	Max. range approx.	Connection voltage
Fotomat OS-472B	0770134	8426487701346	180°	8 m	220-240VAC, 50/60Hz

Presence detectors with light

NEW



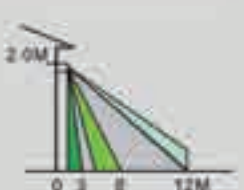
Fotomat OS-190A.

- Combination of lamp and movement detector, which can be positioned independently.
- On detecting presence the light is switched on and remains on for the length of time selected.
- Adjustable range (maximum 12 m.).
- Adjustable timing between 6 seconds and 10 minutes.
- Adjustable lux level activation.
- Load: halogen lamp, max. 500W, only 1W of power consumption.
- Manufactured in aluminium and water-resistant (protection grade IP44).

TOP VIEW



SIDE VIEW



Detection zones del Fotomat OS-190A.

Article	Code	EAN 13	Detection angle	Max. range approx.	Connection voltage
Fotomat OS-190A	0770135	8426487701353	110°	12 m	230VAC, 50Hz

Twilight switch

NEW



Kobalux.

- New surface-mounted twilight switch model.
- The Kobalux automatically activates the load connected to it when the light level is lower than the selected crepuscular level and deactivates it when the light level once again becomes greater than the selected light level.
- Adjustable lux level between 5~1200 Lux.
- LED connected load indicator.
- Contact capacity 10A max:
 - Incandescent lamps 2300 W
 - Halogen lamps 1200 W
 - Low-voltage halogen lamps 300 W
 - Fluorescent lamps 400 W
 - PL lamps 250W
- Connection / disconnection delay: 60 seconds (not adjustable)
- Protection grade IP 54.

Article	Code	EAN 13	Connection voltage
Kobalux	0770136	8426487701360	220-240 VAC, 50/60 Hz

NEW

B.E.G. Luxomat® PD3-FP-MIC.

- PD3-FP version that adds the sound re-set function.
- The first trip-in is by movement, and then the luminaire remains on both by movement and by sound presence in the room.
- Adjustable micro level.

Article	Code	EAN 13	Detection angle	Max. range approx.	Connection voltage
Luxomat PD3-FP-MIC	0770077	8426487006823	360°	Ø 14 m - h= 5 m	230 V/50 Hz

B.E.G. Luxomat® PD9.

- Latest generation movement detector including a very small micro lens (only 63 mm in diameter) and 360° coverage.
- Made up by two parts:
 - 36 mm diameter detection lens with male RJ11 jack.
 - Power unit (where the electronics, contacts, etc. are located) with female RJ11 socket.
 Both parts should be interconnected.
- Available in its simple version with manual regulation with potentiometers and versions in MASTER/SLAVE, and even with DIMMER function.
These versions can be programmed by means of the same remote controls as those of the other models (IR=PD, IR=PDim)

Especificaciones generales:

- Recommended assembly height: 2.5 m.
- Coverage area: 360°, circular.
- Detection range:
 - Ø 2.5 m. for persons seated.
 - Ø 6 m. for movement towards the detector.
 - Ø 10 m. for transversal movement.
- Crepuscular regulation: from 5 to 2000 Lux
- Timer: 15 seconds to 30 min. 1 pulse function.
- Power supply: 230 VAC, 50-60 Hz.
- Contact capacity:
 - 2300 W cosF = 1
 - 1150 VA cosΦ = 0,5

Article	Code	EAN 13	Description
Luxomat PD9-FP	0770078	8426487700783	Simple version. Manual regulation by potentiometers
Luxomat PD9/M-FP	0770074	8426487006793	MASTER version with double channel (lighting and free potential contact)
Luxomat PD9/DIM-FP	0770076	8426487006816	MASTER version with automatic light level control function (DIMMER)
Luxomat PDM/E-FP	0770075	8426487006809	SLAVE unit, to be used with any MASTER model

B.E.G. Luxomat® M+S / 180-1P.

- New model of built-in detector in a universal mechanisms box.
- Designed to work with stair timers in hallways, public buildings, etc.
- Upon detecting movement, the detector sends a pulse to the timer.
- Simple 2 wire connection. Directly replaces any manual push button.

Article	Code	EAN 13	Description
Luxomat M+S/ 180-1P	0770073	8426487004768	Connection by means of a stair timer



Supplied with two lens rings:

- white marble colour
- grey colour

NEW

GARANTÍA
2 AÑOS

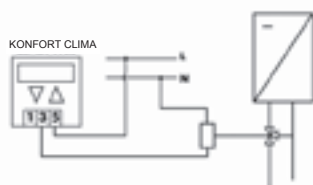
Konfort Klima. Digital electronic thermostat.



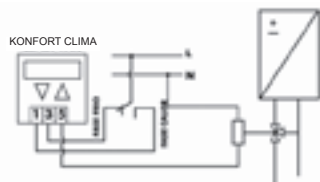
- Two-wire connection.
- Change-over contact.
- Control range: from 5° to 30°C
- Large display indicating:
 - Room temperature
 - Set temperature
 - State of contact
- Powered by LR 03/AAA alkaline batteries.
- Contact capacity: 7(3) to 250 VAC

Heating installations

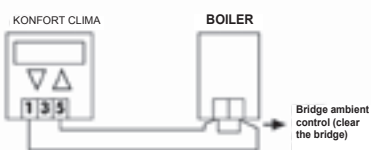
FAN-COIL CONTROL (ONLY COLD)



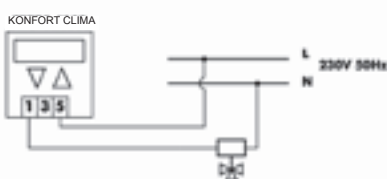
FAN-COIL CONTROL (CENTRALISED SUMMER/WINTER CHANGEOVER)



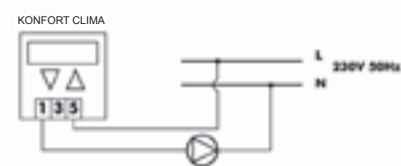
CONTROL OF BOILER



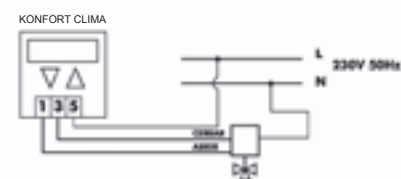
CONTROL OF ON/OFF VALVE



CONTROL OF PUMP



CONTROL OF REVERSIBLE VALVE

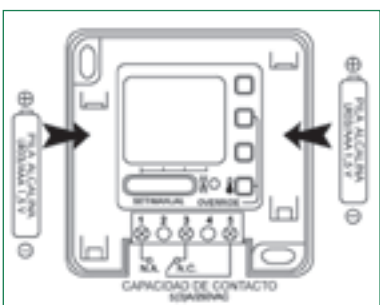


Article	Code	EAN 13	Features
KONFORT CLIMA	0775830	8426487758302	2 wires, 5°-30°C, 7(3) A / 250 VAC

Konfort Mini. Digital programmable Chronostat.



- 2-wire connection, replacing conventional thermostats.
- Two temperature levels.
- Digital programming.
- Daily or weekly programming; separate or for blocks of days.
- Six standard preset programs which can be changed by the user.
- Permanent time and room temperature display.
- Low battery indicator.
- Powered with 2 LR 6 / AA alkaline batteries.
- 5 (3) A / 250 VAC contact capacity.

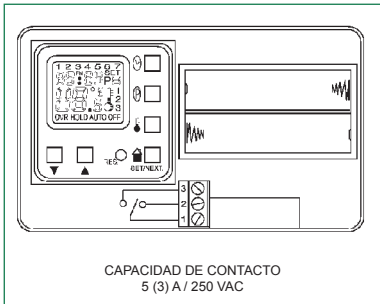


Article	Code	EAN 13	Features
KONFORT MINI	0775831	8426487758319	2 wires, 3°-35°C, 5(3) A / 250 VAC

Konfort Plus. Digital programmable chronostat.



- 2-wire connection, replacing conventional thermostats.
- Three temperature levels.
- Digital programming.
- Can be used to control heating and air conditioning (manual selector located below the display).
- Daily or weekly programming; separate or for blocks of days.
- Six standard preset programs which can be changed by the user.
- Permanent time and room temperature display.
- Low battery indicator.
- Powered with 2 LR 6 / AA alkaline batteries.
- 5 (3) A / 250 VAC contact capacity.



Article	Code	EAN 13	Features
KONFORT PLUS	0775835	8426487758357	2 wires, 5°-35°C, 5(3) A / 250 VAC

NEW



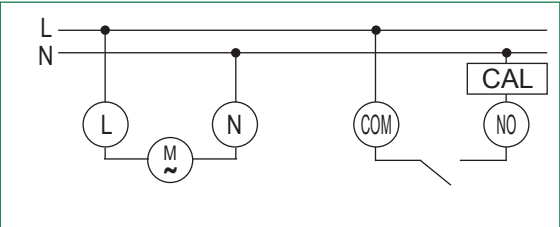
Konfort wireless. Wireless chronostat “remote control” type.

- Wireless communication between transmitter, battery supplied, and receiver cabled with heating system.
- Unlimited temperature levels.
- 7 x 24h 3 different programs:
 - daily program (seven days a week, all with the same program).
 - weekly program (every day of the week with a different program).
 - 5-2 program (Monday to Friday with the same program; Saturday-Sunday with the same program).
- Each daily program is divided into 6 programmable periods with a minimum duration of 10 minutes.
- Holiday function: fixed temperature from 1 to 9 hours.
- Annual holiday function: fixed temperature from 1 to 99 days.
- Override function: modifies the fixed temperature temporaly until the following program instruction.
- Manual temperature function: indefinite fixed temperature.
- 100 metre transmitter - receiver range outdoors.
- Factory-set transmitter - receiver communication.
- LED indicator in receiver indicating loss of communication between transmitter and receiver.
- Heater operation indicator symbol.
- Pump protection function.
- Anti-freeze function.
- Heating operation time reader.



Article	Code	EAN 13	Features
KONFORT WIRELESS	0775832	8426487008421	5-35°C, 7 (2,5) A / 230 VAC

Connection diagrams



**Kobell Duo. 2 tones doorbell.**

- Connection voltage: 230 VAC.
- Colour: white casing, brown base.
- Size: 135 x 79 x 44 mm.

Article	Code	EAN 13	Connection voltage
KOBELL DUO	0775762	8426487757626	230 VAC

**Kobell Micro. Buzzer.**

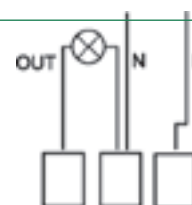
- Connection voltage: 230 VAC.
- Sound level: 80 dB.
- Colour: white casing, grey base.
- Size: 61 x 44 x 33 mm.

Article	Code	EAN 13	Connection voltage
KOBELL MICRO	0775760	8426487757602	230 VAC

NEW**Kontroluz. Push-button timer.**

- Adjustable timing from 0.5 to 5 min.
- For incandescent loads of up to 500 W.
- LED indicator for darkness.
- Connection voltage: 230 V / 50 Hz.
- Ideal for lighting control.

Connection diagram



Article	Code	EAN 13	Timing	Contact
KONTROLUZ	0775770	8426487757701	0,5 - 5 min.	500 W

NEW**Kontroluz fluorescence. Push-button timer.**

- Timer adjustable from 0.5 to 10 minutes.
- For fluorescence loads of up to 120 W, apart from halogen up to 400 VA and incandescence up to 500 W.
- LED darkness indicator.
- Can be re-activated.
- Connection voltage: 230 V / 50 Hz.
- Ideal for lighting control.

Connection diagram



Article	Code	EAN 13	Timing	Contact
KONTROLUZ FL	0775771	8426487005789	0,5 - 10 min.	120 W

Kobamatic. Analogical plug-in time-switch.

- Programming by means of tappets.
- Schuko plug. Consulting other plugs.
- Daily programming.
- Minimum program: 15 minutes
- Manual switching option, with two settings:
 - Permanently on
 - Automatic mode
- Red LED indicates power ON
- Working voltage: 230 V / 50 Hz.
- Breaking capacity: 16 A / 3500 W.
- Child protection.

Article	Code	EAN 13	Program	Minimum program	Contact
KOBAMATIC	0775840	8426487758401	Daily	15 minutes	16 A

Kobamatic Digi. Digital plug-in time-switch.

- Daily and weekly program, turning it on and off up to 8 times a day, with the possibility of repeating for several days.
- Minimum program: 1 minute.
- 100 hours running reserve, thanks to a battery, that prevents the device to loose time and day in case of a power supply failure.
- Manual pre-selection with three positions:
 - Permanent ON
 - Permanent OFF
 - Automatic mode
- It has a random ON and OFF program, which simulates some presence in the house. Ideal for being used as a thieves dissuading element.
- Schuko plug.
- Connection voltage: 230 V / 50 Hz.
- Breaking capacity: 16 A / 3500 W.
- Children protection.

Article	Code	EAN 13	Program	Minimum program	Contact
KOBAMATIC DIGI	0775841	8426487758418	Dayly & weekly	1 minute	16 A

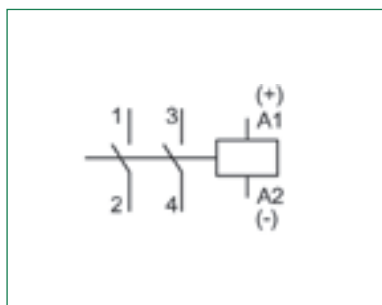
**GUARANTEE
2 YEARS****KONTA-DC. Direct current hour counter.**

- Control operating times of electrical equipment/loads.
- Flush-mounting with cut-out of 46x46 mm.
- Optional accessory for fixing to DIN rail.
- Counting capacity 99,999 hours.

Article	P.V.P. / ud	Code	EAN 13	Fixing	Voltage
KONTA-DC	48,00	0775780	8426487024902	Hush-mounting	10-50VDC
ACC DIN KONTA-DC	2,68	0775781	8426487024919	DIN rail	—



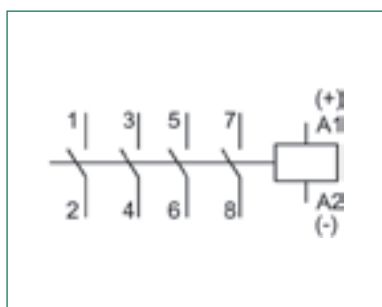
- Modular contactors that increase the contact capacity of all types of common control elements in electrical installations (time switches, motion detectors, thermostats and clock thermostats, twilight-switches, etc...).
- Low noise level.
- Power voltage 220-240 VAC.
- Surge protection up to 430 V.
- Manufactured in compliance with IEC 947-4-1, IEC 947-5-5, EN 60947-4-1, EN 60947-5-1, EN 61905, VDE 0660 and VDE 0637 regulations.



Contact 20/20. 1 module wide. 2 NO contacts. 20A.

- 1 module DIN rail mount contactor.
- Two normally open contacts.

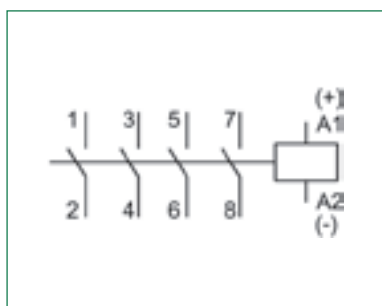
Article	Code	EAN 13	Nominal current	Coil consumption	N° of contacts	Width in modules
KONTACT 20/20	0775845	8426487758456	20 A	2,2 W	2 NA	1
KONTACT 20/20-24	0775790	8426487024018	20 A		2 NA	1



Contact 24/40. 2 modules wide. 4 NO contacts. 24A.

- Two modules wide. Four normally open contacts.

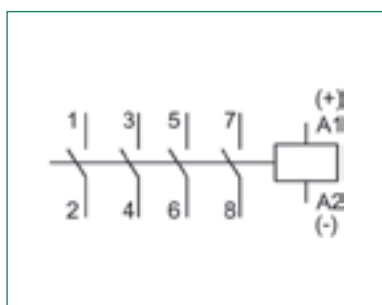
Article	Code	EAN 13	Nominal current	Coil consumption	N° of contacts	Width in modules
KONTACT 24/40	0775846	8426487758463	24 A	4W	4 NA	2
KONTACT 24/40-24	0775791	8426487024025	24 A		4 NA	2



Contact 40/40. 3 modules wide. 4 NO contacts. 40A.

- Three modules wide. Four normally open contacts.

Article	Code	EAN 13	Nominal current	Coil consumption	N° of contacts	Width in modules
KONTACT 40/40	0775847	8426487758470	40 A	5W	4 NA	3
KONTACT 40/40-24	0775792	8426487024032	40 A		4 NA	3



Contact 63/40. 3 modules wide. 4 NO contacts. 63A.

- Three modules wide. Four normally open contacts.

Article	Code	EAN 13	Nominal current	Coil consumption	N° of contacts	Width in modules
KONTACT 63/40	0775848	8426487758487	63 A	5W	4 NA	3
KONTACT 63/40-24	0775793	8426487024049	63 A		4 NA	3

* Most common contactor models. For other versions (different nominal current, contacts, ...), please consult availability.

Acoustic signalling.

Air-horns.



- Operation by means of compressed air.
- Brass-bronze alloy that is highly resistant to corrosion.
- Low frequency, highly penetrating sound.
- Ideal for locations without an electric supply.
- Continuous and indefinite sound as long as there is no temperature rise.
- IP 54, resistant to corrosion.
- Ideal for nautical uses.

Article	Code	EAN 13	Description
TDE 198	0770214	8426487702145	198 mm, 125 dB, 660 Hz
TDE 360	0770215	8426487702152	360 mm, 130 dB, 387 Hz

Electromechanical horns



- Warning alarms ideal for all uses.
- Continuous sound as long as there is no temperature rise.
- Low consumption.
- Highly directional sound.
- Easy installation.
- Combinations with light.
- Wide range of voltage levels available upon request.

Article	Code	EAN 13	Description
HP 12VDC	0793010	8426487930104	ABS, IP33, 92 dB, 12 VDC, 180 mA
HP 24VDC	0793011	8426487930111	ABS, IP33, 92 dB, 24 VDC, 100 mA
HP 110VAC	0793012	8426487930128	ABS, IP33, 92 dB, 110 VAC, 60 mA
HP 230VAC	0793013	8426487930135	ABS, IP33, 92 dB, 230 VAC, 20 mA
HPW11 12VDC	0793020	8426487930203	ABS, IP55, 108 dB, 12 VDC, 600 mA
HPW11 24VDC	0793021	8426487930210	ABS, IP55, 108 dB, 24 VDC, 300 mA
HPW11 110VAC	0793022	8426487930227	ABS, IP55, 108 dB, 110 VAC, 150 mA
HPW11 230VAC	0793023	8426487930234	ABS, IP55, 108 dB, 230 VAC, 70 mA
HGW11 12VDC	0793024	8426487930241	Aluminium, IP56, 108dB, 12VDC, 600mA
HGW11 24VDC	0793025	8426487930258	Aluminium, IP56, 108dB, 24VDC, 300mA
HGW11 110VAC	0793026	8426487930265	Aluminium, IP56, 108dB, 110VAC, 150mA
HGW11 230VAC	0793027	8426487930272	Aluminium, IP56, 108dB, 230VAC, 70mA
HPL 12VDC	0793014	8426487930142	ABS, IP33, 92dB, 7W, 12VDC, 180mA
HPL 24VDC	0793016	8426487930166	ABS, IP33, 92dB, 7W, 24VDC, 100mA
HPL 230VAC	0793018	8426487930180	ABS, IP33, 92dB, 7W, 230VAC, 20mA

* Add "01" to the Item code for amber lights and "02" for red lights.

Buzzers and mini-buzzers

KAB 50



KAB 60



HPO



HPW12



KKTB VAC



KKTB 12V



- Electromechanical buzzers that produce sound by means of diaphragm vibration.
- Standard AC/DC versions (other voltages available upon request).
- Piezoelectric versions.
- Continuous or intermittent sound.
- Surface or flush-mounted versions.
- High sound potential at low consumption.
- Low frequency and highly penetrating sound.

Article	Code	EAN 13	Description
KAB 50-24V	0791770	8426487917709	Flush-mounted, 24 VAC, 97 dB, 0,65 A 8 min. ON + 5 min. OFF, continuous sound
KAB 50-115V	0791771	8426487917716	Flush-mounted, 115 VAC, 97 dB, 0,15 A 8 min. ON + 5 min. OFF, continuous sound
KAB 50-230V	0791772	8426487917723	Flush-mounted, 230 VAC, 97 dB, 0,065 A 8 min. ON + 5 min. OFF, continuous sound
KAB 50/IP65	0791773	8426487917730	Box IP 55 for buzzers KAB 50
KAB/ANG	0791774	8426487917747	Angular wall mount
KAB60- 24 VAC	0791775	8426487917754	Surface, 24 VAC, 97 dB, 0,65 A Uninterrupted intermittent sound
KAB60-115 VAC	0791776	8426487917761	Surface, 115 VAC, 97 dB, 0,15 A Uninterrupted intermittent sound
KAB60-230 VAC	0791777	8426487917778	Surface, 230 VAC, 97 dB, 0,065 A Uninterrupted intermittent sound
KAB60-IP65	0791778	8426487917785	Box IP 65 for buzzers KAB 60
HPO 12VDC	0793002	8426487930029	Surface, 12 VDC, 95 dB, IP43, 150 mA uninterrupted continuous sound
HPO 24VDC	0793003	8426487930036	Surface, 24 VDC, 95 dB, IP43, 70 mA uninterrupted continuous sound
HPO 110VAC	0793004	8426487930043	Surface, 110 VAC, 95 dB, IP43, 20 mA uninterrupted continuous sound
HPO 230VAC	0793005	8426487930050	Surface, 230 VAC, 95 dB, IP43, 20 mA uninterrupted continuous sound
HPW12 12VDC	0793006	8426487930067	Surface, 12 VDC, 108 dB, IP55, 0,6 A uninterrupted continuous sound
HPW12 24VDC	0793007	8426487930074	Surface, 24 VDC, 108 dB, IP55, 0,3 A uninterrupted continuous sound
HPW12 110VAC	0793008	8426487930081	Surface, 110 VAC, 108 dB, IP55, 0,15 A uninterrupted continuous sound
HPW12 230VAC	0793009	8426487930098	Surface, 230 VAC, 108 dB, IP55, 0,07 A uninterrupted continuous sound
KKTB 12V	0770227	8426487702275	Surface, 12 VDC (6-14 VDC), 30 mA, 80 dB, IP 34
KKTB 24V	0770228	8426487702282	Surface, 24 VDC (10-28 VDC), 25 mA, 80 dB, IP 34
KKTB VAC/C	0770229	8426487702299	SemiFlush-mounted, 60-250 VAC 20 mA, 95 dB, IP 55, continuous
KKTB VAC/I	0770230	8426487702305	Semi flush-mounted, 60-250 VAC 20 mA, 95 dB, IP 55, intermittent
KKTB 24DC	0791810	8426487918102	Semi flush-mounted, 24 VDC, 2 tonos 20 mA, 95 dB, IP 55
KKTB 24AC/DC	0791811	8426487918119	Semi flush-mounted, 24 V AC/DC, 95 dB continuous or intermittent sound, IP 55

Electromechanical sirens.



- Traditional siren sound produced by the expulsion of air on the turning of a motor propeller.
- Quality sound, with high acoustic levels.
- Possibility of continuous sound or in cycles.
- Applications in industrial alarms, process control, safety, evacuation, fire protection systems and many others.
- Huge variety of acoustic powers, designs and protection grades.
- Long reach models and flameproof versions on request, as well as other power voltages.

Article	Code	EAN 13	Description
Mini mono P 12V	0770231	8426487702312	12 VDC, 103 dB, 1 A, 1000 Hz, Continuous, IP 44
Mini mono P 24V	0770232	8426487702329	24 VDC, 103 dB, 0,5 A, 1000 Hz, Continuous, IP 44
Mini mono P VAC	0770233	8426487702336	110/230 VAC, 100 dB, 0,13/0,085 A, 1000 Hz, cont., IP 44
Mini mono V 12V	0770237	8426487702374	Igual MiniMono, P 12 VDC, capucha superior
Super V 230 VAC	0770242	8426487702428	230 VAC, 123 dB, 1 A, 1.680 Hz continuous, IP 55
Duplo 12 VDC	0770247	8426487702473	12 VDC, 126 dB, 15 A, 1.500 Hz 15 min, IP 65
Duplo 24 VDC	0770248	8426487702480	24 VDC, 126 dB, 8,3 A, 1.500 Hz 15 min, IP 65
Mono 72 12V	0770243	8426487702435	12 VDC, 120 dB, 9 A, 1.800 Hz continuous, IP 65
Mono 72 24V	0770244	8426487702442	24 VAC/DC, 120 dB, 4,6 A, 1800 Hz, Continuous, IP 65
Mono 72 230V	0770246	8426487702466	230 V AC/DC, 120dB, 0,46 A, 1800Hz, Continuous, IP65
Super M 110V	0770340	8426487703401	110V AC/DC, 127dB, 2,7A, 1680 Hz, continuous, IP55
Super M 230V	0770251	8426487702510	230 V AC, 127dB, 1A,1680Hz, continuous, IP65
Duplo 230V	0770250	8426487702503	230VAC, 126dB, 1A, 1.500Hz, 15 minutes, IP65

SO4 electromechanical siren.



- Vertically mounted electromechanical siren with powerful 170 W motor, for use in outdoor situations, in the most adverse conditions.
- Sturdy construction for industrial use.
- Protection grade IP 55.
- Designed for security systems.
- Sound interval of 20 min.
- Possibility of incorporating thermostat regulated antifreeze heater.

Article	Code	EAN 13	Description
SO4 12 VDC	0770350	8426487703500	12 VDC, 110 dB, 3,3 A, 900 Hz
SO4 24 VDC	0770351	8426487703517	24 VDC, 125 dB, 6,5 A, 900 Hz
SO4 110 VAC	0770352	8426487703524	110 VAC, 125 dB, 3,7 A, 900 Hz

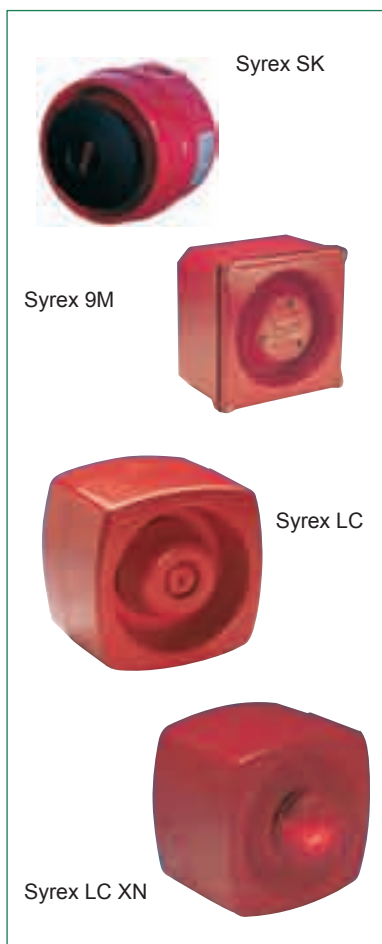
Bells.



- Traditional solenoid-operated bells.
- Low consumption.
- Three sizes.
- Standard voltage, with the possibility of other power supply options on request.
- Flame-proof versions.
- IP 40. IP 65 accessory optional.

Article	Code	EAN 13	Description
TC 4" 24VDC	0791820	8426487918201	Diameter 100mm, 95 dB, IP 40
TC 4" 24VAC	0770262	8426487702626	Diameter 100mm, 95 dB, IP 40
TC 4" 115VAC	0770263	8426487702633	Diameter 100 mm, 95 dB, IP 40
TC 4" 230VAC	0770264	8426487702640	Diameter 100 mm, 95 dB, IP 40
TC 6" 12VDC	0770265	8426487702657	Diameter 150 mm, 100 dB, IP 40
TC 6" 24VDC	0791821	8426487918218	Diameter 150 mm, 100 dB, IP 40
TC 6" 24VAC	0770266	8426487702664	Diameter 150 mm, 100 dB, IP 40
TC 6" 115VAC	0770267	8426487702671	Diameter 150 mm, 100 dB, IP 40
TC 6" 230VAC	0791822	8426487918225	Diameter 150 mm, 100 dB, IP 40
TC 6" 24VDC FLAME-PROOF	0770328	8426487703289	150 mm, 93 dB, IP 40, 24 VDC, 30 mA
TC 8" 24VDC	0791823	8426487918232	Diameter 230mm, 105 dB, IP 40
TC 8" 24VAC	0770268	8426487702688	Diameter 230mm, 105 dB, IP 40
TC 8" 115VAC	0770270	8426487702701	Diameter 230mm, 105 dB, IP 40
TC 8" 230VAC	0770271	8426487702718	Diameter 230mm, 105 dB, IP 40
CAJA IP65	0770269	8426487702695	Accessory for bells TC6 y TC8

Electronic sirens.



- Low consumption and continuous sound.
- Some models have multiple tones.
- Aluminium versions.
- Flame-proof versions.
- Different protection types.
- Wide range of uses: security systems, industry, hotels, etc.

Article	Code	EAN 13	Description
Syrex LC 8/57 VDC	0770293	8426487702930	8-57 VDC, 110 dB, 20 mA, 800/1000 Hz, IP 65, 3 sounds
Syrex LC VAC	0770294	8426487702947	110/230 VAC, 110 dB, 40/12 mA, 800/1000 Hz, IP 65, 3 sounds
Syrex 9M DC	0770298	8426487702985	12/24 VDC, 120 dB, 0,25/0,45 A, Aluminium, IP 65, 5 sounds
Syrex 9M AC	0770299	8426487702992	110/230 VAC, 120 dB, 0,23/0,11 A, Aluminium, IP 65, 5 sounds
Syrex 5XN/12-02	0770303	8426487703036	12 VDC, 105 dB, 1 J, IP 54
Syrex 5XN/24-02	0770304	8426487703043	24 VDC, 105 dB, 1 J, IP 54
Syrex 5XN/AC-02	0770305	8426487703050	110/230 VAC, 105 dB, 1 J, IP 54
Syrex LC XN/12-02	0770306	8426487703067	12 VDC, 110 dB, 1 J, IP 65
Syrex LC XN/24-02	0770307	8426487703074	24 VDC, 110 dB, 1 J, IP 65
Syrex LC XN/AC-02	0770308	8426487703081	110/230 VAC, 110 dB, 1 J, IP 65
Syrex 9M XN/12-02	0770309	8426487703098	12 VDC, 120 dB, 1 J, IP 65
Syrex 9M XN/24-02	0770310	8426487703104	24 VDC, 120 dB, 1 J, IP 65

Nota: unidades suministrables hasta fin de existencias. Serán sustituidas por las nuevas familias SONOS y NEXUS descritas a continuación.

SONOS



SONOS lower base



SONOS upper base

Colour: red (white on request)

- Leading technology with electronic acoustic warning sound.
- 32 different alarm tones which can be chosen by the user.
- User adjustable volume.
- Acoustic power of between 102 dB and 110 dB, depending upon tone.
- Very low consumption.
- Uninterrupted sound. Can operate for an indefinite period of time.
- Wide range of acoustic frequencies, in accordance with fire regulations.
- Multi voltage supply:
 - Direct Current models: 9-60 V DC
 - Alternating Current models: 115-230 V AC
- Easy installation. The connections are made on the base previously fixed to the wall. The siren is fixed to the base manually without the need for screws.
- Two types of fixing base:
 - Lower base: recessed connections, IP43, ø 100 mm.
 - Upper base: recessed connections or outdoor, IP65, ø 97.5 mm.

Article	Code	EAN 13	Description
SONOS VDC/IP43	0790050	8426487003631	9-60 VDC, 102-110 dB, 6-35 mA, 400/2850 Hz, IP 43
SONOS VDC/IP65	0790055	8426487003693	9-60 VDC, 102-110 dB, 6-35 mA, 400/2850 Hz, IP 65
SONOS VAC/IP65	0790060	8426487003747	110-230 VAC, 102-110 dB, 6-35 mA, 400/2850 Hz, IP 65

NEXUS



Colour: red (white on request)

- High performance electronic siren.
- 3 models:
 - NEXUS 105 (105 dB)
 - NEXUS 110 (110 dB)
 - NEXUS 120 (120 dB)
- Easy installation. Connexions on the base. The siren is fixed to the base with 1/4 turn screws.
- Solid and robust siren, manufactured in anti-impact reinforced polycarbonate.
- IP66 level protection, making installation possible in practically any location.
- 64 tones. 3 alarm levels (DC models)
- Uninterrupted sound, can operate for hours.
- Levy low consumption (10-500 mA)
- Adjustable volume. Wide range of frequencies.
- Multi voltage supply: 10-60 V DC, 110-230 V AC.

Article	Code	EAN 13	Description
NEXUS 105 VDC	0770940	8426487010530	10-60 VDC, 18-40 mA, 105 dB, IP 66, 136x136x124, 0,7 Kg.
NEXUS 105 VAC	0770943	8426487010547	110-230 VAC, 11-23 mA, 105 dB, IP 66, 136x136x124, 0,8 Kg.
NEXUS 110 VDC	0770946	8426487014842	10-60 VDC, 18-40 mA, 110 dB, IP 66, 166x166x150, 1,1 Kg.
NEXUS 110 VAC	0770949	8426487014873	110-230 VAC, 11-23 mA, 110 dB, IP 66, 166x166x150, 1,2 Kg.
NEXUS 120 VDC	0770952	8426487014903	10-60 VDC, 190-500 mA, 120 dB, IP 66, 166x166x150, 1,8 Kg.
NEXUS 120 VAC	0770955	8426487014934	110-230 VAC, 88-180 mA, 120 dB, IP 66, 166x166x150, 2,2 Kg.

Electronic sirens with light warning

- Wide range of combinations of electronic sirens with stroboscope lights and LED's

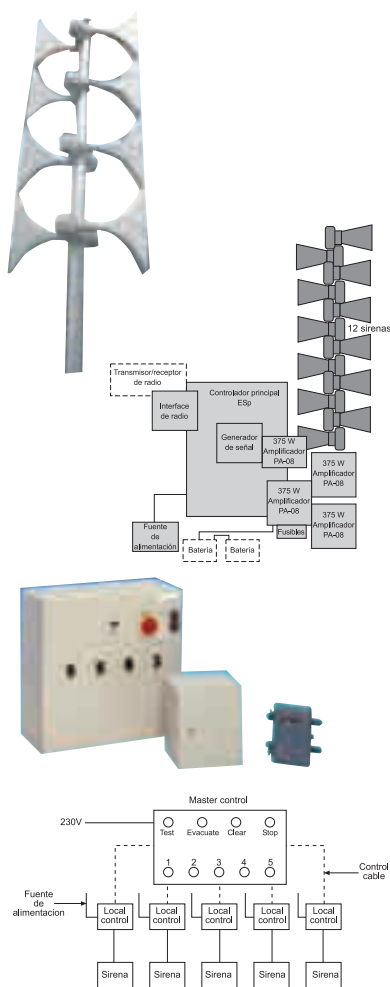


SONOS LED-01 / IP65



NEXUS 105 XN-02

Article	Code	EAN 13	Description	Dome colour
SONOS 17-60VDC IP43 SIR+LD-01	0790065	8426487014774	Sonos siren + LED, 17-60 V DC, 10-50 mA, IP43, 106 dB, 32 tones, 215 g	Amber
SONOS 17-60VDC IP43 SIR+LD-02	0790054	8426487003686	Sonos siren + LED, 17-60 V DC, 10-50 mA, IP43, 106 dB, 32 tones, 215 g	Red
SONOS 17-60VDC IP65 SIR+LD-01	0790066	8426487014781	Sonos siren + LED, 17-60 V DC, 10-50 mA, IP65, 106 dB, 32 tones, 215 g	Amber
SONOS 17-60VDC IP65 SIR+LD-02	0790059	8426487003730	Sonos siren + LED, 17-60 V DC, 10 mA, IP65, 106 dB, 32 tones, 215 g	Red
SONOS 24VDC IP43 SIR+XN-02	0790053	8426487003662	Sonos siren + LED, 24 V DC, 10-50 mA, IP43, 106 dB, 32 tones	Red
SONOS 24VDC IP65 SIR+XN-02	0790058	8426487003723	Sonos siren + LED, 24 V DC, 10-50 mA, IP65, 106 dB, 32 tones	Red
SONOS 110/230VAC IP65 SIR+LD01	0790068	8426487010585	Sonos siren + Xenon light 110/230 V AC, 10mA, 106 dB, IP65, 32 tones	Amber
SONOS 110/230VAC IP65 SIR+LD02	0790067	8426487010578	Sonos siren + Xenon light 110/230 V AC, 10mA, 106 dB, IP65, 32 tones	Red
NEXUS 105 10-60VDC SIR+XN-01	0770942	8426487014828	Nexus siren + Xenon light 5J, 10-60 V DC, 18-40 mA, 105 dB, 64 tones, IP66, 0.8 Kg.	Amber
NEXUS 105 10-60VDC SIR+XN-02	0770941	8426487014811	Nexus siren + Xenon light 5J, 10-60 V DC, 18-40 mA, 105 dB, 64 tones, IP66, 0.8 Kg.	Red
NEXUS 105 110/230VAC SIR+XN-01	0770945	8426487010554	Nexus siren + Xenon light 5J, 110-230 V AC, 11-23 mA, 105 dB, 64 tones, IP66, 0.8 Kg.	Amber
NEXUS 105 110/230VAC SIR+XN-02	0770944	8426487014835	Nexus siren + Xenon light 5J, 110-230 V AC, 11-23 mA, 105 dB, 64 tones, IP66, 0.8 Kg.	Red
NEXUS 110 10-60VDC SIR+XN-01	0770948	8426487014866	Nexus siren + Xenon light 5J, 10-60 V DC, 18-40 mA, 110 dB, 64 tones, IP66, 1.2 Kg.	Amber
NEXUS 110 10-60VDC SIR+XN-02	0770947	8426487014859	Nexus siren + Xenon light 5J, 10-60 V DC, 18-40 mA, 110 dB, 64 tones, IP66, 1.2 Kg.	Red
NEXUS 110 110/230VAC SIR+XN-01	0770951	8426487014897	Nexus siren + Xenon light 5J, 110-230 V AC, 11-23 mA, 110 dB, 64 tones, IP66, 1.3 Kg.	Amber
NEXUS 110 110/230VAC SIR+XN-02	0770950	8426487014880	Nexus siren + Xenon light 5J, 110-230 V AC, 11-23 mA, 110 dB, 64 tones, IP66, 1.3 Kg.	Red
NEXUS 120 10-60VDC SIR+XN-01	0770954	8426487014927	Nexus siren + Xenon light 5J, 10-60 V DC, 190-500 mA, 120 dB, 64 tones, IP66, 2 Kg.	Amber
NEXUS 120 10-60VDC SIR+XN-02	0770953	8426487014910	Nexus siren + Xenon light 5J, 10-60 V DC, 190-500 mA, 120 dB, 64 tones, IP66, 2 Kg.	Red
NEXUS 120 110/230VAC SIR+XN-01	0770957	8426487014958	Nexus siren + Xenon light 5J, 110-230 V AC, 88-250 mA, 120 dB, 64 tones, IP66, 2.3 Kg.	Amber
NEXUS 120 110/230VAC SIR+XN-02	0770956	8426487014941	Nexus siren + Xenon light 5J, 110-230 V AC, 88-250 mA, 120 dB, 64 tones, IP66, 2.3 Kg.	Red



ES long range electronic sirens.

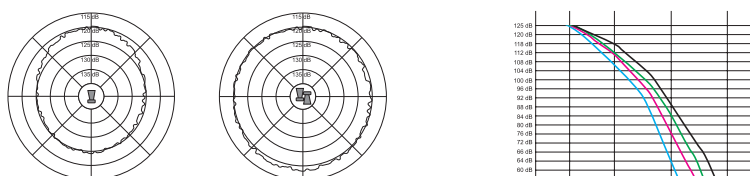
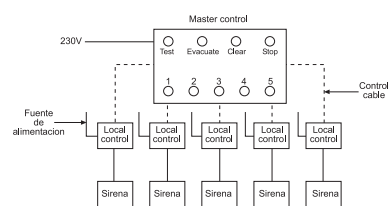
- Loud sound configuration to cover wide areas.
- Several kilometres radius coverage.
- Has a reserve battery to guarantee operation in the event of power failure.
- Can produce a wide range of different sounds, recorded messages and also direct voice reproduction.
- Puerto RS 232 and RS 488 ports for direct connection to a PC.
- Supplied with an electronic control system which can be governed by radio frequency, GSM, etc.

Article	Code	EAN 13	Description
ES 2	0770341	8426487003457	Radiofrequency siren mounting, 750 W, 95-230 V AC (95-230 Hz), or 400 V. N° sirens 6.145/115 dB

Siren control

- Master control unit with signal activation controls.
- Can be governed manually or by radio.
- Various supply voltages.
- Totally configurable system as required.

Article	Code	EAN 13	Description
ES 2 15 Radiofrequency Panel control	0770342	8426487003464	Radiofrequency



GP 10 long range electronic sirens.

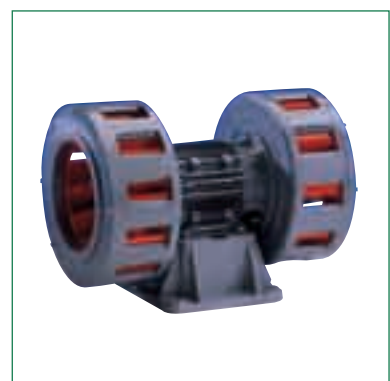
- High acoustic power.
- Manufactured in cast aluminium.
- Anti-freeze heater and optional thermostats.
- Radio control possible.

Article	Code	EAN 13	Description
GP10	0770368	8426487003358	Three phase siren 400V, 140 dB, 475 Hz, 5.5 Kw

GP 12 long range electronic sirens

- High volume electro-mechanical siren audible at 7 Km.
- Anti-freeze heater.

Article	Code	EAN 13	Description
GP12	0770366	8426487703661	Three phase siren 400V, 145 dB, 475 Hz, 11 Kw



Special long-range signals. Query first.

- Wide selection of long-range sirens for special signals.
- Sirens up to 11 Kw, single- and three-phase, in flame-proof versions for some models.
- Ranges up to several kilometres.
- Delivery conditions, query first.

Luminous signals.

Fixed incandescent lights.



Article	Code	EAN 13	Description
SF125-40	0770820	8426487003907	12 VAC/DC, Ba15d X 21 W, 1,75 A, IP 65, panel mounting
SF125-41	0770721	8426487003914	24 VAC/DC, Ba15d X 21 W, 0,88 A, IP 65, panel mounting
SF125-42	0770676	8426487003921	115 VAC, Ba15d X 15 W, 0,12 A, IP 65, panel mounting
SF125-43	0770428	8426487003938	230 VAC, Ba15d X 15 W, 0,05 A, IP 65, panel mounting
SF125-90	0770827	8426487003945	12 VAC/DC, Ba15d X 21 W, 1,75 A, IP 65, with mount
SF125-91	0770830	8426487003952	24 VAC/DC, Ba15d X 21 W, 0,88 A, IP 65, with mount
SF125-92	0770833	8426487003969	115 VAC, Ba15d X 15 W, 0,12 A, IP 65, with mount
SF125-93	0770407	8426487003976	230 VAC, Ba15d X 15 W, 0,05 A, IP 65, with mount
SF401-62	0770896	8426487004034	12 VAC/DC, H1 X 55 W, 4,6 A, IP 65, mount without screws
SF401-63	0770900	8426487004041	24 VAC/DC, H1 X 70 W, 2,9 A, IP 65, mount without screws
SF401-05	0770884	8426487003983	12 VAC/DC, Ba15d X 48 W, 4 A, IP 65, mount without screws
SF401-06	0770888	8426487003990	24 VAC/DC, Ba15d X 48 W, 2 A, IP 65, mount without screws
SF401-07	0770892	8426487004003	48 VDC, Ba15d X 48 W, 1 A, IP 65, mount without screws
SF400-08	0770877	8426487004010	115VAC, E14 X 40W, 0,27 A, IP 65, mount without screws
SF400-09	0770425	8426487004027	230 VAC, E14 X 40 W, 0,15 A, IP 65, mount without screws

Incandescent light and buzzer combination.

- Combination of mini incandescent lights and intermittent buzzer.
- Versions with fixed and intermittent light available.



Article	Code	EAN 13	Description
SFA125-80	0791701	8426487421701	12 VAC/DC, Ba15d X 21 W, 0.05 A, IP 65 Fixed light, intermittent sound
SFA125-81	0791705	8426487003877	24 VAC/DC, Ba15d X 21 W, 1.75 A, IP 65 Fixed light, intermittent sound
SFA125-82	0791711	8426487003884	115 VAC, Ba15d X 21 W, 0.12 A, IP 65 Fixed light, intermittent sound
SFA125-83	0791718	8426487003891	230 VAC, Ba15d X 21 W, 0.05 A, IP 65 Fixed light, intermittent sound
FFA125-80	0791723	8426487004058	12 VDC, Ba15d X 21 W, 2 A, IP 65 Intermittent light and sound
FFA125-81	0791729	8426487004065	24 VDC, Ba15d X 21 W, 1 A, IP 65 Intermittent light and sound
FFA125-82	0791735	8426487004072	115 VAC, Ba15d X 15 W, 0.096 A, IP 65 Intermittent light and sound
FFA125-83	0791741	8426487004089	230 VAC, Ba15d X 15 W, 0.086 A, IP 65 Intermittent light and sound

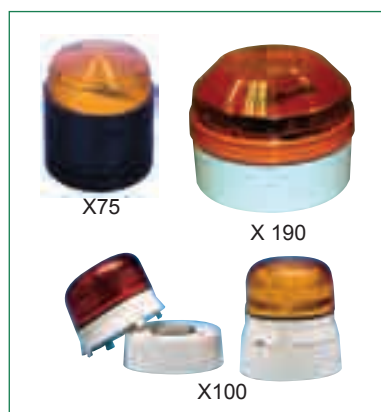
NOTA: para adquirir estos artículos es necesario incluir 2 códigos, el propio del artículo y el de la cúpula correspondiente según página 200.



Blinking incandescent lights.

Article	Code	EAN 13	Description
FF125-90	0770468	8426487004096	12 VDC, Ba15d X 21 W, 2 A, IP 65, with mount
FF125-91	0770728	8426487004102	24 VDC, Ba15d X 21 W, 1 A, IP 65, with mount
FF125-92	0770460	8426487004119	115 VAC, Ba15d X 15 W, 0,96 A, IP 65, with mount
FF125-93	0770437	8426487004126	230 VAC, Ba15d X 15 W, 0,86 A, IP 65, with mount
FF401-84	0770462	8426487004157	12 VDC, Ba15d X 21 W, 2 A, IP 65, with mount
FF401-85	0770794	8426487004164	24 VDC, Ba15d X 21 W, 1 A, IP 65, with mount
FF401-88	0770798	8426487004171	12 VDC, H1 X 55 W, 4,6 A, IP65, with mount
FF401-89	0770802	8426487004188	12 VDC, H1 X 70 W, 2,9 A, IP 65, with mount
FF400-86	0770450	8426487004133	115 VAC, E14 X 40 W, 0,28 A, IP 65, with mount
FF400-87	0770451	8426487004140	230 VAC, E14 X 40 W, 0,16 A, IP 65, with mount

NOTE: to purchase these articles, 2 codes, the article code and that of the corresponding dome in accordance with page 200 should be input.



Strobe lights.

- Extremely strong visual impact.
- Long durability.
- Low consumption.
- High power versions available (24J).
- High protection levels: IP65-IP66.

Article	Code	EAN 13	Description	Dome colour
X 75- 24-01	0791320	8426487913206	24V DC, 0,25J	Amber
X 75- 24-02	0791321	8426487913213	24V DC, 0,25J	Red
X 75- 24-05	0791324	8426487913244	240 V DC, 0,25J	White
X 75-240-01	0791325	8426487913251	240 V DC, 0,25J	Amber
X 75-240-02	0791326	8426487913268	240 V DC, 0,25J	Red
X 75-240-03	0791328	8426487007707	240 V DC, 0,25J	Blue
X 75-240-04	0791327	8426487913275	240 V DC, 0,25J	Green
X 75-240-05	0791329	8426487913299	240 V DC, 0,25J	White
X100-03-01	0770472	8426487704729	115 VAC, 1J, 24 mA, IP65	Amber
X100-03-02	0791343	8426487913435	115 VAC, 1J, 24 mA, IP65	Red
X100-03-03	0791344	8426487913442	115 VAC, 1J, 24 mA, IP65	Blue
X100-03-04	0791345	8426487913459	115 VAC, 1J, 24 mA, IP65	Green
X100-03-05	0791346	8426487913466	115 VAC, 1J, 24 mA, IP65	White
X100-04-01	0770473	8426487704736	230 VAC, 1J, 15 mA, IP 65	Amber
X100-04-02	0770607	8426487706075	230 VAC, 1J, 15 mA, IP 65	Red
X100-04-03	0770618	8426487706181	230 VAC, 1J, 15 mA, IP 65	Blue
X100-04-04	0770608	8426487706082	230 VAC, 1J, 15 mA, IP 65	Green
X100-04-05	0770614	8426487706143	230 VAC, 1J, 15 mA, IP 65	White
X195-02-01	0791795	8426487917952	24 VAC/DC, 5J, 150 mA, IP65	Amber
X195-02-02	0791796	8426487917969	24 VAC/DC, 5J, 150 mA, IP65	Red
X195-02-03	0791797	8426487917976	24 VAC/DC, 5J, 150 mA, IP65	Blue
X195-02-04	0791798	8426487917983	24 VAC/DC, 5J, 150 mA, IP65	Green
X195-02-05	0791799	8426487917990	24 VAC/DC, 5J, 150 mA, IP65	White
X195-05-01	0791800	8426487918003	230 VAC, 5J, 70 mA, IP65	Amber
X195-05-02	0791801	8426487918010	230 VAC, 5J, 70 mA, IP65	Red
X195-05-03	0791802	8426487918027	230 VAC, 5J, 70 mA, IP65	Blue
X195-05-04	0791803	8426487918034	230 VAC, 5J, 70 mA, IP65	Green
X195-05-05	0791804	8426487918041	230 VAC, 5J, 70 mA, IP65	White

Another voltage, query first

Strobe lights.



Article	Code	EAN 13	Description
X125-64	0791860	8426487004553	10-100 VDC, 20-72 VAC, 2J, 130 mA, IP 65
X125-62	0791865	8426487004539	115 VAC, 2,3 J, 30 mA, IP 65
X125-63	0791870	8426487004546	230 VAC, 2,7J, 21 mA, IP65
X401-18	0791495	8426487004607	12/24V DC, 10/7,5J, 1,45/0,7A, IP65
X401-20	0770533	8426487004614	48V DC, 10/7,5J, 0,37A, IP65
X400-88	0791475	8426487004584	24V AC, 10/7,5J, 0,72A, IP65
X400-89	0791480	8426487004591	48V AC, 10/7,5J, 0,37A, IP65
X400-21	0770490	8426487004560	115V AC, 10/7,5J, 0,10A, IP65
X400-22	0770491	8426487004577	230V AC, 10/7,5J, 0,06A, IP65
X501-18-01	0791829	8426487004638	12/24 VDC, 24J/18J, 1,6A/1,1A, IP65
X500-22	0791839	8426487004621	230 VAC, 24J, 0,4A, IP65

NOTA: para adquirir estos artículos es necesario incluir 2 códigos, el propio del artículo y el de la cúpula correspondiente según página 233.

Polycarbonate domes.

Article	Code	EAN 13	Description
CGN	0770623	8426487706235	Large amber dome
CGR	0770624	8426487706242	Large red dome
CGA	0770625	8426487706259	Large blue dome
CGV	0770626	8426487706266	Large dome green
CGT	0770627	8426487706273	Large transparent dome
CPN	0770628	8426487706280	Small amber dome
CPR	0770629	8426487706297	Small red dome
CPA	0770630	8426487706303	Small blue dome
CPV	0770631	8426487706310	Small dome green
CPT	0770632	8426487706327	Small transparent dome

NOTE: - The large domes are suitable for XX200/201/400/401 lights.
- The small domes are suitable for XX125 lights.

Rotating lights.

Article	Code	EAN 13	Description
R100-14-01	0791001	8426487910014	8W, 24VDC, 0,25J, only amber, red and white
R100-14-02	0791002	8426487910021	8W, 240VAC, 0,25J, only amber, red and white

Another voltage, query first

Article	Code	EAN 13	Description
R201-13	0770527	8426487004317	12V DC, 4,8A, 55W, IP65
R201-14	0791034	8426487004324	24V DC, 2,6A, 70W, IP65
R201-60	0791039	8426487004331	12V DC, 2A, 21W, IP65
R201-61	0791044	8426487004348	24V DC, 1,2A, 21W, IP65
R201-62	0791049	8426487004355	12V DC, 4A, 48W, IP65
R201-63	0791054	8426487004362	24V DC, 2A, 48W, IP65
R201-64	0770575	8426487004379	48V DC, 1A, 48W, IP65
R200-03	0791010	8426487004287	24V AC, 0,13A, 48W, IP65
R200-02	0770204	8426487004270	48V AC, 0,10A, 48W, IP65
R200-04	0791018	8426487004294	115V AC, 0,5A, 60W, IP65
R200-05	0770205	8426487004300	230V AC, 0,27A, 60W, IP65
RA201- 20	0770504	8426487004256	12V DC, 4,8A, 55W, 95dB, IP65
RA201- 21	0770506	8426487004263	24V DC, 2,76A, 70W, 95dB, IP65
RA200- 24	0791155	8426487004232	115V AC, 0,51A, 60W, 95dB, IP65
RA200- 25	0770508	8426487004249	230V AC, 0,28A, 60W, 95dB, IP65
R401-13	0770609	8426487004423	12V DC, 4,8A, 55W, IP65
R401-14	0770528	8426487004430	24V DC, 2,6A, 70W, IP65
R401-60	0770689	8426487004447	12V DC, 2A, 21W, IP65
R401-61	0770612	8426487004454	24V DC, 1,2A, 21W, IP65
R401-62	0791134	8426487004461	12V DC, 4A, 48W, IP65
R401-63	0791139	8426487004478	24V DC, 2A, 48W, IP65
R401-64	0791144	8426487004485	48V DC, 1A, 48W, IP65
R400-03	0770601	8426487004393	24V AC, 0,13A, 48W, IP65
R400-02	0791114	8426487004386	48V AC, 0,10A, 48W, IP65
R400-04	0770519	8426487004409	115V AC, 0,32A, 40W, IP65
R400-05	0770520	8426487004416	230V AC, 0,20A, 40W, IP65

NOTE: to purchase these articles, 2 codes, the article code and that of the corresponding dome in keeping with the previous table should be input

R100



RA 200



R401



Lights for cars.

R88



Article	Code	EAN 13	Description
FF98-34	0770523	8426487004195	12V DC, Inc. Blinking, 21W, IP65
FF98-38	0791534	8426487004201	24V DC, Inc. Blinking, 21W, IP65
R88-34	0770531	8426487004218	12V DC, rotating, 55W, IP65
R88-38	0770691	8426487004225	24V DC, rotating, 70W, IP65
X88-72	0770532	8426487004492	12/24V DC, strobe light, 10J, IP65
X88-74	0791334	8426487004508	48V DC, strobe light, 10J, IP65

NOTE: to purchase these articles, 2 codes, the article code and that of the corresponding dome are necessary (see table on page 267).

LED lights.

- Ideal for illuminating poles and towers. Markers in general.
- Extremely long duration (approx. 100.000 hours).
- Low consumption.
- Fixed, intermittent and rotary versions available, depending on model.
- Light and buzzer combination available.
- High protection levels. IP65 on all models.

LED-02

LEDD 125-04

LED 401

Article	Code	EAN 13	Description	Dome colour
LED-02-01	0770465	8426487704651	12/24 VDC, LED, 40 mA, IP65, with base	Amber
LED-02-02	0770695	8426487706952	12/24 VDC, LED, 40 mA, IP65, with base	Red
LED-02-04	0770696	8426487706969	12/24 VDC, LED, 40 mA, IP65, with base	Green
LED-03-01	0770466	8426487704668	230 VAC, LED, 28 mA, IP65, with base	Amber
LED-03-02	0770699	8426487706990	230 VAC, LED, 28 mA, IP65, with base	Red
LED 125-02-01	0791614	8426487916146	10-30 VAC/DC, 48 LEDS, 0,63 A (fixed), 0,25 A (Intermittent)	Amber
LED 125-02-02	0791610	8426487916108	10-30 VAC/DC, 48 LEDS, 0,63 A (fixed), 0,25 A (Intermittent)	Red
LED 125-02-04	0791611	8426487916115	10-30 VAC/DC, 48 LEDS, 0,63 A (fixed), 0,25 A (Intermittent)	Green
LED 125-04-01	0791615	8426487916153	230 VAC, 48 LEDS, 30 mA (fixed), 0,15 A (Intermittent)	Amber
LED 125-04-02	0791612	8426487916122	230 VAC, 48 LEDS, 30 mA (fixed), 0,15 A (Intermittent)	Red
LED 125-04-04	0791613	8426487916139	230 VAC, 48 LEDS, 30 mA (fixed), 0,15 A (Intermittent)	Green
LEDA 125-02-01	0791780	8426487917808	10-30 VAC/DC, 48 LEDS, 85 dB, 80 mA (fixed), 50 mA (Intermittent)	Amber
LEDA 125-02-02	0791781	8426487917815	10-30 VAC/DC, 48 LEDS, 85 dB, 80 mA (fixed), 50 mA (Intermittent)	Red
LEDA 125-04-01	0791790	8426487917907	230 VAC, 48 LEDS, 85 dB, 30 mA (fixed), 0,2 A (Intermittent)	Amber
LEDA 125-04-02	0791791	8426487917914	230 VAC, 48 LEDS, 85 dB, 30 mA (fixed), 0,2 A (Intermittent)	Red
LEDA 125-04-05	0791794	8426487917945	230 VAC, 48 LEDS, 85 dB, 30 mA (fixed), 0,2 A (Intermittent)	White
LED401-02-01	0791640	8426487916405	10-30 VAC/DC, 144 LEDS, 60mA (fixed), 30mA (Inter.), 40mA (rotary)	Amber
LED401-02-02	0791641	8426487916412	10-30 VAC/DC, 144 LEDS, 60mA (fixed), 30mA (Inter.), 40mA (rotary)	Red
SONOS 17-60VDC IP43 LD-01	0790064	84264870014767	IP 43	Amber
SONOS 17-60VDC IP43 LD-02	0790052	8426487003655	IP 43	Red
SONOS 17-60VDC IP65 LD-01	0790063	8426487014743	IP 65	Amber
SONOS 17-60VDC IP65 LD-02	0790057	8426487003716	IP 65	Red

Another voltage, query first

Modular towers.



Article	Code	EAN 13	Description	Nº módulos
TLF-S-2-230-02-04	0770541	8426487705412	230 VAC, fixed light 8W	2
TLF-S-3- 24-02-01-04	0770542	8426487705429	24 VAC/DC, fixed light 8W	3
TLI-S-2- 12-02-01	0770920	8426487709205	12 VAC/DC, intermitent light 8W	2
TLI-S-2- 24-02-04	0770548	8426487705481	24 VAC/DC, intermitent light 8W	2
TLI-S-2-115-02-01	0770576	8426487705764	115 VAC, intermitent light 8W	2
TLI-S-2-230-02-01	0770549	8426487705498	230 VAC, intermitent light 8W	2
TLI-S-3- 12-02-01-04	0770921	8426487709212	12 VAC/DC, intermitent light 8W	3
TLI-S-3- 24-02-01-04	0770550	8426487705504	24 VAC/DC, intermitent light 8W	3
TLI-S-3-115-02-01-04	0770922	8426487709229	115 VAC, intermitent light 8W	3
TLI-S-3-230-02-01-04	0770551	8426487705511	230 VAC, intermitent light 8W	3

COLOURS: 01 amber, 02 red, 03 blue, 04 green y 05 white.
Other voltages on request.

Active Line.



- Functionality and simplicity, that is Active Line, the innovative signalling lamp featuring revolutionary LED technology. Thanks to its patented software, real control over the LEDs in the different mode functions (permanent, intermittent and flash) can be guaranteed, as well as avoiding a mixture of colours.
- A single lamp emits up to 8 different colours.
- Low energy consumption (max. 165 mA).
- Long useful life thanks to the LED technology.
- Available in both standard models and special modules for potentially explosive atmospheres.
- Its illumination surpasses that of incandescent lights.
- Minimum protection grade IP 54.
- Optional buzzer module available.

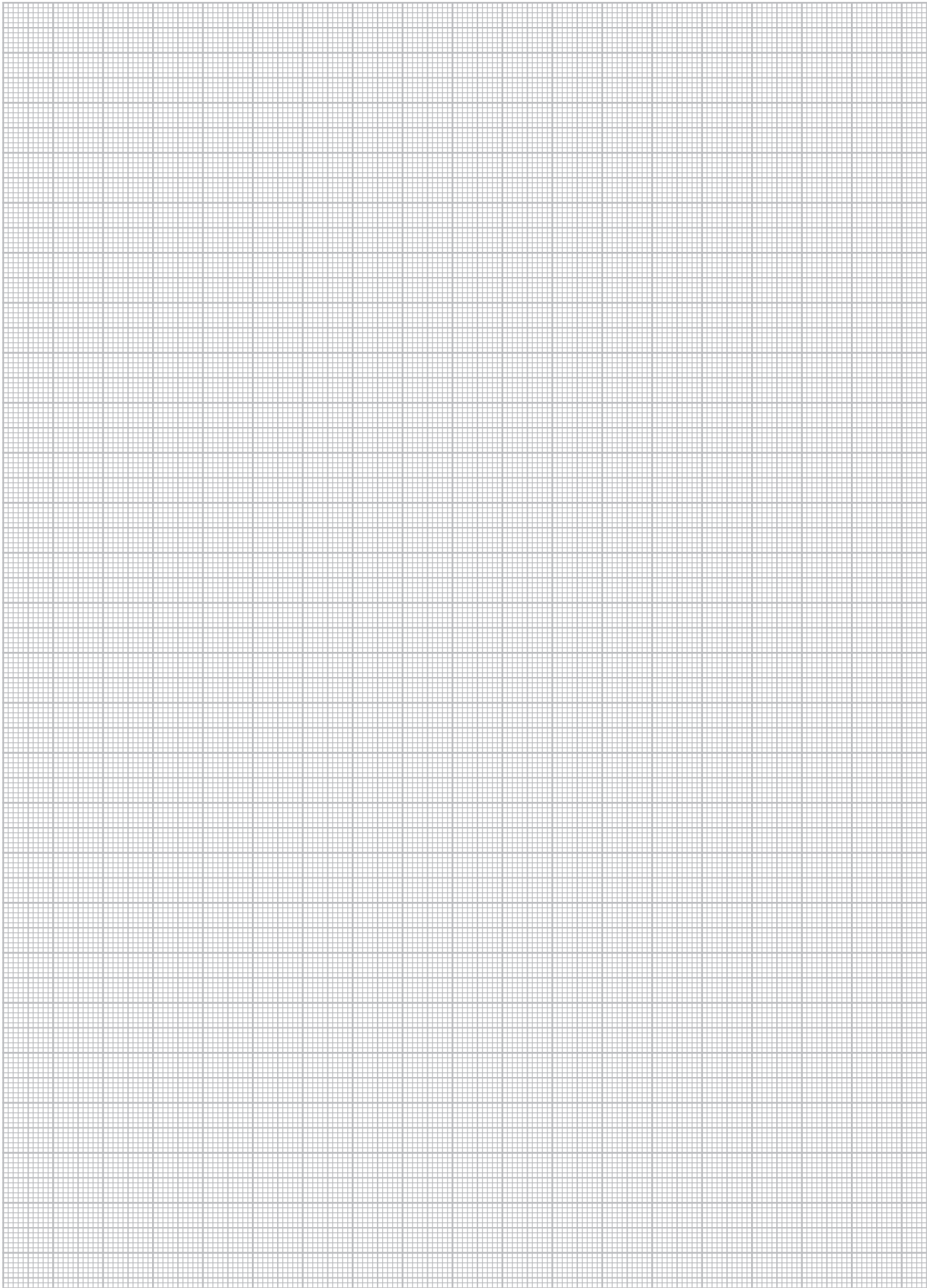
Article	Code	EAN 13	Voltage	Type of lamp	Current
Active Line 24	0793030	8426487001033	24 VDC	LED	165 mA
Active Line 230	0793032	8426487419685	230 VAC	LED	50 mA
Buzzer module					
Active Line 24 VDC + buzzer	0793033	8426487003518	24 VDC	+ buzzer	
Active Line 230 VDC + buzzer	0793034	8426487003525	230 VAC	+ buzzer	

Accessories



Article	Code	EAN 13	Description
RGB	0770620	8426487706204	Protective stainless steel grating for large dome.
AAV	0770621	8426487706211	Anti-vibration adapter
BMR	0770633	8426487706334	Metallic mount
AMP	0770622	8426487706228	Big wall angle bar
AMPP	0791695	8426487916955	Small wall angle bar
CGN	0770623	8426487706235	Large amber dome
CGR	0770624	8426487706242	Large red dome
CGA	0770625	8426487706259	Large blue dome
CGV	0770626	8426487706266	Large green dome
CGT	0770627	8426487706273	Large transparent dome
CPN	0770628	8426487706280	Small amber dome
CPR	0770629	8426487706297	Small red dome
CPA	0770630	8426487706303	Small blue dome
CPV	0770631	8426487706310	Small green dome
CPT	0770632	8426487706327	Small transparent dome
LNTL	0770635	8426487706358	Amber lens for TL towers
LRTL	0770636	8426487706365	Red lens for TL towers
LATL	0770638	8426487706389	Blue lens for TL towers
LVTL	0770637	8426487706372	Green lens for TL towers
LBTL	0770639	8426487706396	Transparent lens for TL towers
TLE	0770526	8426487705269	Xenon tube for strobe lights
TX200S	0791620	8426487916207	Xenon tube for X200S
TX200Z	0791621	8426487916214	Xenon tube for X200Z

NOTE: - The large domes work with XX200/201/300/301/400/401 lights.
- The small domes are for XX125 lights.





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