

CYLINDRICAL FUSE HOLDERS



PMC COMPACT FUSE HOLDERS



Compact fuse holders for industrial cylindrical fuse links. Very low dimensions. For mounting on DIN/EN rail. Single phase models or single phase + neutral in only one module. Multi-pole units can be made with connection accessories. PMC fuse holders are made with self-extinguishable materials and have silver plated copper contacts.

www.df-sa.es/cylindrical/fuseholders/PMC/

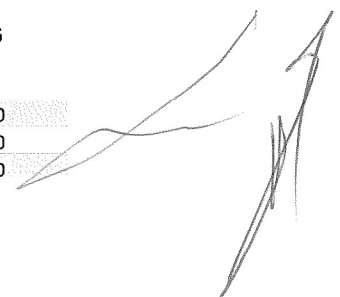
	POLES	MODULES 17,5 mm	REFERENCE	I _n (A)	U (V)	PACKING Uni./BOX
8x32	I	1	483500	25	400	12/336
	N	1	483502	32	400	12/336
	I + N	1	483504	25	400	12/336
	I + N	2	483506	25	400	6/168
	2	2	483508	25	400	6/168
	3	3	483510	25	400	4/112
	3 + N	3	483512	25	400	4/112
	3 + N	4	483514	25	400	3/84
	4	4	483516	25	400	3/84
10x38	I	1	483530	32	500	12/336
	N	1	483502	32	500	12/336
	I + N	1	483534	32	500	12/336
	I + N	2	483536	32	500	6/168
	2	2	483538	32	500	6/168
	3	3	483540	32	500	4/112
	3 + N	3	483542	32	500	4/112
	3 + N	4	483544	32	500	3/84
		4	483546	32	500	3/84



483530

PMC COMPACT FUSE HOLDERS ACCESSORIES

	SIZE	REFERENCE	DESCRIPTION	PACKING
8x32 10x38	8x32 / 10x38	480005	PINS FOR MULTIPOLE ASSEMBLY	12/300
	8x32 / 10x38	483550	PMC HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300
	8x32 / 10x38	483552	PMC MULTIPOLE ASSEMBLY KIT	12/300



PMX CC MODULAR FUSE HOLDERS



Modular fuse holders for cylindrical CC class fuse links. For mounting on DIN/EN rail. Single phase and multi-pole types. Available with fusing indicator. Multi-pole units can be made with connection accessories. PMCC fuse holders are made with self-extinguishable materials and have silver plated copper contacts. UL approval.

www.df-sa.es/cylindrical/fuseholders/PMCC/

POLES	REFERENCE		I _n (A)	U (V)	PACKING Uni./BOX
	WITHOUT INDICATOR	WITH INDICATOR			
I	485181	485188	30	600	12/192
II	485184	485190	30	600	6/96
III	485185	485191	30	600	4/64



485181

STANDARDS IEC 60289-1 IEC 60269-2 EN 60289-1 EN 60269-2	STANDARDS CSA C22.2 4248-1 UL 4248-1 UL 4248-4	APPROVALS 	TECHNICAL TECHNICAL DATA PAGE 11	TECHNICAL PMC & PMCC FUSE HOLDERS MULTI-POLE ASSEMBLY PAGE 12	TECHNICAL DIMENSIONS PAGE 17
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331

CYLINDRICAL FUSE HOLDERS



PMF MODULAR FUSE HOLDERS WITH INTEGRATED NEUTRAL

Modular fuse holders for industrial cylindrical fuse links. For mounting on DIN/EN rail. Single phase models, single-phase+neutral in only one module and multi-pole types. Available with fusing indicator or with microswitch for use with fuse links with striker (only fusing detection or fusing-pre-breaking-fuse link detection). Multi-pole units can be made of connection accessories. PMF fuse holders are made of self-extinguishable materials and have silver plated copper contacts.

www.df-sa.es/cylindrical/fuseholders/PMF/



480032



480135I

8x32

POLES	MODULES 17,5 mm	REFERENCE		I _n (A)	U (V)	PACKING Uni./BOX
		WITHOUT INDICATOR	WITH INDICATOR			
1 + N	1	480125	480125 I	25	400	12/192
3 + N	3	480325	480325 I	25	400	4/64

10x38

I	1	480032	-	32	690	12/192
N	1	480032 N	-	32	690	12/192
1 + N	1	480135	480335 I	32	400	12/192
1 + N	2	480132	-	32	690	6/96
2	2	480232	-	32	690	6/96
3	3	480332	-	32	690	4/64
3 + N	3	480335	-	32	400	4/64
3 + N	4	480432	-	32	690	3/48
4	4	480532	-	32	690	3/48

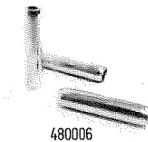
PMF MODULAR FUSE HOLDERS ACCESSORIES

8x32
10x38

REFERENCE	DESCRIPTION	PACKING
480005	PINS FOR MULTIPOLE ASSEMBLY	12
480006	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12



480005

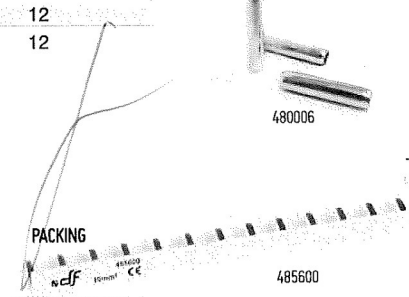


480006

PMF PMX PMC PMCC CONNECTION ACCESSORIES PHASE BUSBARS



POLES	MODULES	REFERENCE	SECTION (mm ²)	PACKING
I	13	485600	10	10
I	57	485601	10	10
II	12	485602	10	6



485600

PMF PMX PMC PMCC CONNECTION ACCESSORIES ACCESSORIES FOR PHASE BUSBARS



REFERENCE	DESCRIPTION	PACKING
485603	INSULATED TERMINAL 6...25 mm ² (FEEDING ACROSS)	10
485604	INSULATED TERMINAL 6...50 mm ² (FEEDING ACROSS)	50
485605	END COVER FOR 1 PHASE BUSBAR	50



485603



485605

STANDARDS	APPROVALS
IEC 60269-1 IEC 60269-2 EN 60269-1 EN 60269-2	RoHS compliant 2002/95/EC

TECHNICAL	TECHNICAL	TECHNICAL	TECHNICAL
TECHNICAL DATA	PMF FUSE HOLDERS MULTI-POLE ASSEMBLY	DIMENSIONS	PHASE BUSBARS & ACCESSORIES DIMENSIONS
PAGE 11	PAGE 12	PAGE 17	PAGE 21

CYLINDRICAL FUSE HOLDERS



SC SCREW FIXING FUSE HOLDERS

Fuse holders for industrial cylindrical fuse links. Screw fixing. Available single-pole and neutrals. SC fuse holders are made with self-extinguishable materials and have silver plated copper contacts.
www.df-sa.es/cylindrical/fuseholders/SC/

	POLES	MODULES 17,5 mm	REFERENCE	I _n (A)	U (V)	PACKING Uni./BOX
8x32	I	1	451025	25	400	12
	N	1	451025 N	25	400	12
10x38	I	1	451032	32	500	12
	N	1	451032 N	32	500	12
14x51	I	1	451050	50	690	12
	N	1	451050 N	50	690	12
22x58	I	1	451100	100	690	6
	N	1	451100 N	100	690	6

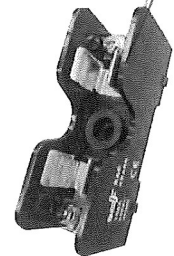


451032

BAC OPEN FUSE BASES

Open bases for cylindrical fuses. The bases BAC for cylindrical fuses are particularly suitable for semiconductor fuses with high power dissipation and therefore needed to be mounted on open bases to facilitate the heat dissipation. Fixation on panel by screw. Made of thermosetting self-extinguishing material.
www.df-sa.es/cylindrical/fuseholders/BAC/

	REFERENCE	I _n (A)	U (V)	PACKING Uni./BOX
10x38	451210	32	690	20/300
14x51	451220	50	690	10/240
22x58	451230	100	690	10/120



451230

STANDARDS	APPROVALS
IEC 60269-1 IEC 60269-2 EN 60269-1 EN 60269-2	RoHS compliant 007233101

TECHNICAL	TECHNICAL
TECHNICAL DATA	DIMENSIONS
PAGE 11	PAGE 18

332

CYLINDRICAL FUSE HOLDERS

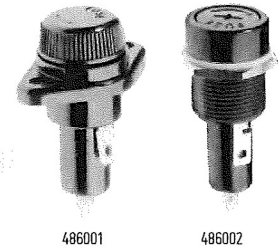


PMP PANEL MOUNTING FUSE HOLDERS NEW

www.df-sa.es/cylindrical/fuseholders/PMP/

10x38

REFERENCE	DESCRIPTION	I _n (A)	U (V)	PACKING Uni./BOX
486001	BAYONET FIXING	30	600	10/100
486002	SCREW FIXING	30	600	10/100

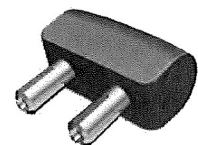


PMB PLUG CONNECTION FUSE HOLDERS NEW

www.df-sa.es/cylindrical/fuseholders/PMB/

10x38

REFERENCE	I _n (A)	U (V)	PACKING Uni./BOX
490030	32	500	20/100



CLIP CONTACT FOR Ø10 FUSE-LINKS NEW

Clip contact for Ø10 cylindrical fuse links. Screw fixation and PCB versions. Manufactured in tinned bronze. All the materials are according to the European Directive 2002/95/EC RoHS (Restriction of the use of certain hazardous substances in electrical material).

10x38
10x85

REFERENCE	DESCRIPTION	I _n (A)	P _d max (W)	PACKING Uni./BOX
482001	Ø10 CLIP CONTACT SCREW FIXATION	25	4	50/200
482002	Ø10 CLIP CONTACT FOR PCB	25	4	50/200



482001



482002

STANDARDS	APPROVALS
IEC 60269-1 IEC 60269-2 EN 60269-1 EN 60269-2	RoHS compliant 02722011

TECHNICAL	TECHNICAL	TECHNICAL
TECHNICAL DATA	PMP FUSE HOLDERS DIMENSIONS	PHASE BUSBARS & ACCESSORIES DIMENSIONS
PAGE 11	PAGE 19	PAGE 21

CYLINDRICAL FUSE HOLDERS



CYLINDRICAL MODULAR FUSE HOLDERS

	PMF 8x32	PMF 10x38	PMF 14x51	PMX 10x38	PMX 14x51	PMX 22x58	PMX 8x32	PMX 10x38	PMX 14x51	BAC 10x38	BAC 14x51	BAC 22x58	PMP 10x38
RATED CURRENT	25 A	32 A	50 A	32 A	50 A	100 A	25 A	32 A	50 A	32 A	50 A	100 A	30 A
RATED VOLTAGE	400 V	690 V	690 V	590 V AC 750 V DC	690 V	690 V	400 V	690 V	690 V	690 V	690 V	690 V	600 V
RATED POWER DISSIPATION	2.5 W	3 W	3 W	2.5 W	5 W	9.5 W	3 W	3 W	3 W	8 W	12 W	20 W	
UTILIZATION CATEGORY	AC-228 400V AC-228 500V AC-218 690 V	AC-228 400V AC-228 500V AC-218 690 V	AC-228 500V AC-218 690 V DC-208 750 V DC	AC-228 500V AC-218 690 V DC-208 750 V DC	AC-228 500V AC-218 690 V	AC-218 690 V	AC-20	AC-20	AC-20	IP-00	IP-00	IP-00	IP-00
PROTECTION DEGREE	IP-20	IP-20	IP-20	IP-20	IP-20	IP-20	IP-20	IP-20	IP-20	IP-00	IP-00	IP-00	IP-00
OPERATING TEMPERATURE	-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C	-20 ... 60 °C	-20 ... 60 °C	-20 ... 60 °C	-20 ... 70 °C
STORAGE TEMPERATURE	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C
DERATING TEMPERATURE	20 °C	1	1	1	1	1	1	1	1	1	1	1	1
	30 °C	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
	40 °C	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
	50 °C	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
DERATING N° OF POLES	1...4	1	1	1	1	1	1	1	1	1	1	1	1
	5...6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	7...9	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
	≥ 10	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
FIXING	RAIL DIN / EN	•	•	•	•	•	•	•	•	•	•	•	•
	SCREW	—	—	—	—	—	—	—	—	—	—	—	—
CONNECTING WIRE	0.75...16 mm ² STRANDED 0.75...25 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...25 mm ² SOLID	1.5...25 mm ² STRANDED 1.5...35 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...16 mm ² SOLID	1.5...25 mm ² STRANDED 1.5...35 mm ² SOLID	1.5...50 mm ² STRANDED 1.5...50 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...16 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...16 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...16 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...16 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...16 mm ² SOLID	0.75...16 mm ² STRANDED 0.75...16 mm ² SOLID	4...70 mm ² STRANDED 6...95 mm ² SOLID
WITH LIGHTNING INDICATOR	120...400V AC 2.5 Nm (1P-N 1H) 2 Nm (1P-N 1H)	120...690V AC 12...24V DC	120...400V AC 2.5 Nm (1P-N 1H) 2 Nm (1P-N 1H)	120...690V AC 12...24V DC	120...690V AC 24...60 VDC	230...690V AC 24...60 VDC	120...690V AC 12...24V DC	120...690V AC 12...24V DC	120...690V AC 24...60 VDC	2 Nm	2 Nm	2.5 Nm	2 Nm
MAX. TIGHTENING TORQUE	2.5 Nm (1P-N 1H) 2 Nm (1P-N 1H)	2.5 Nm	2.5 Nm	2.5 Nm	3 Nm	4 Nm	2.5 Nm	2 Nm	2.5 Nm	2.5 Nm	2.5 Nm	2.5 Nm	3.5 Nm
WITH MICROSWITCH 5A-250V	—	—	—	—	—	—	—	—	—	—	—	—	—
MULTIPOLAR UNION WITH ACCESSORIES	•	•	•	•	•	•	•	•	•	•	•	•	•
LABEL HOLDER	—	—	—	—	—	—	—	—	—	—	—	—	—
LOCKING ACCESSORIES	—	—	—	—	—	—	—	—	—	—	—	—	—



333

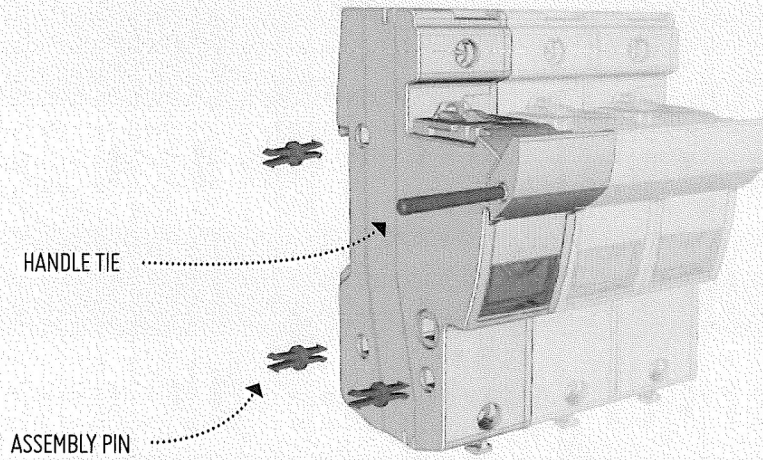
CYLINDRICAL FUSE HOLDERS

TECHNICAL
PMF MODULAR FUSE HOLDERS
 MULTI-POLE ASSEMBLY

PMX

PMC

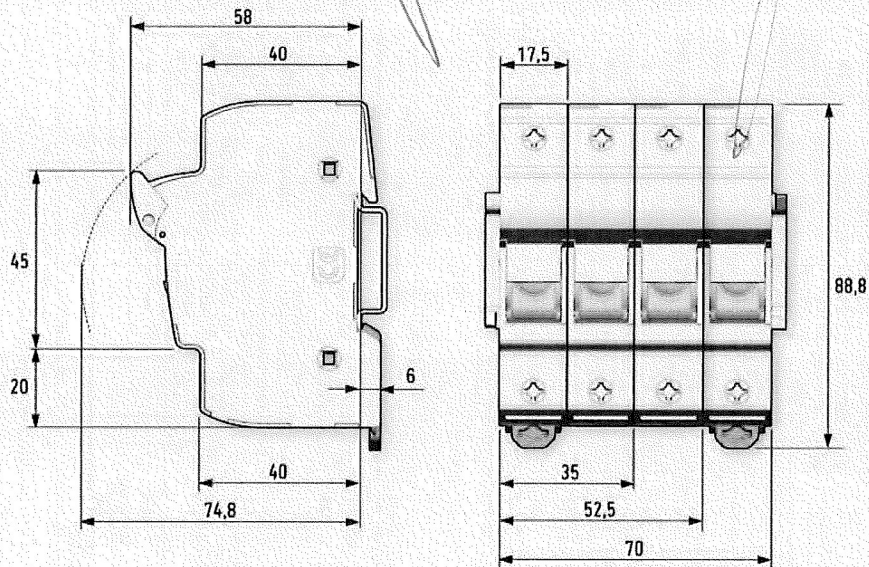
NEW



TECHNICAL
PMX MODULAR FUSE HOLDERS
 DIMENSIONS

8x32
 10x38
 CC^{CLASS}

NEW



CYLINDRICAL FUSE HOLDERS

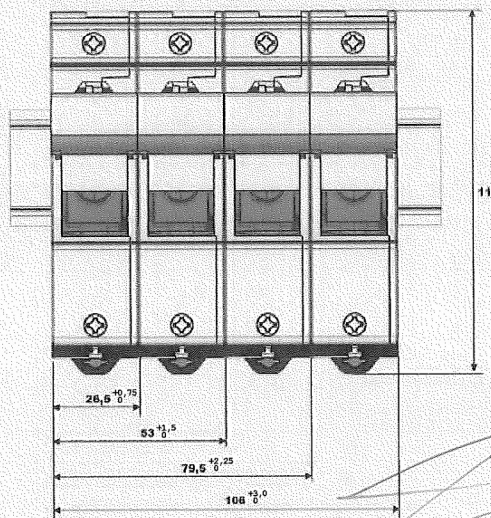
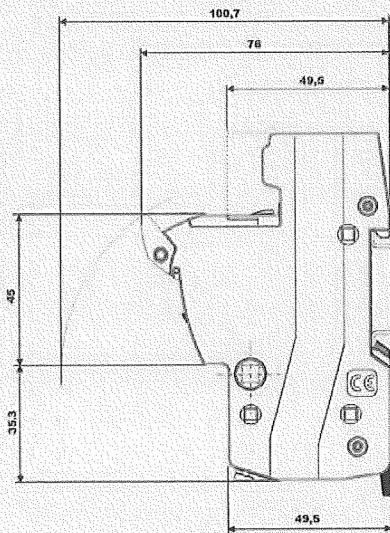


TECHNICAL

PMX MODULAR FUSE HOLDERS DIMENSIONS

14x51

NEW

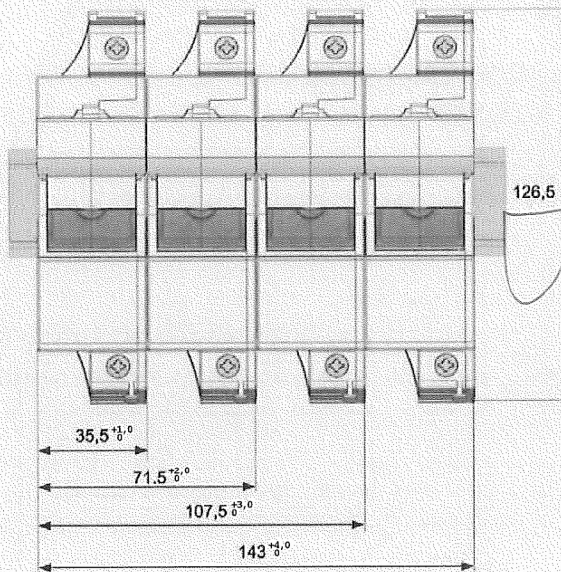
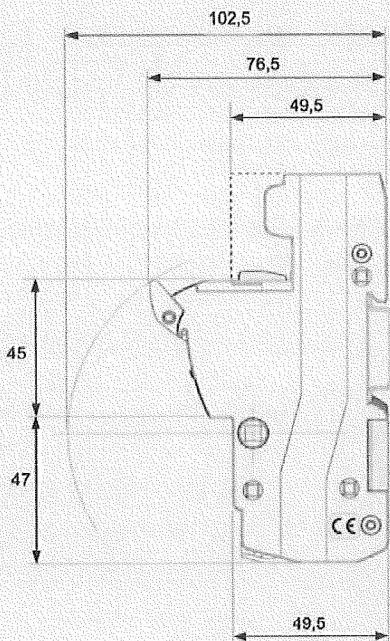


TECHNICAL

PMX MODULAR FUSE HOLDERS DIMENSIONS

22x58

NEW



334

CYLINDRICAL FUSE HOLDERS

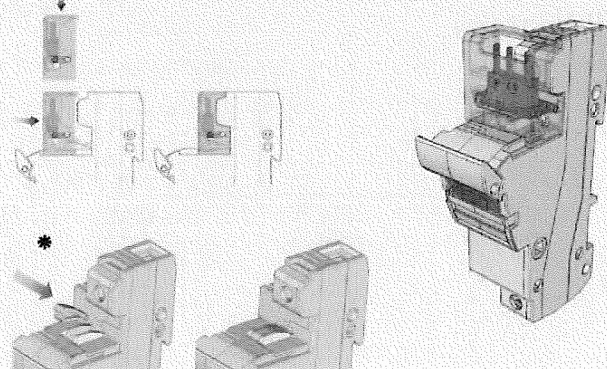
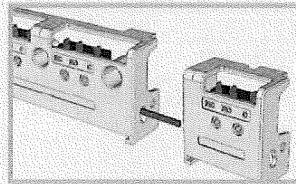
TECHNICAL

PMX MODULAR FUSE HOLDERS MICROSWITCH MOUNTING

14x51
22x58

Put on the **microswitch** on the guides, and push in horizontal movement to the final position.

* For **ONLY FUSION** accessory, first mount the lifter in his place.



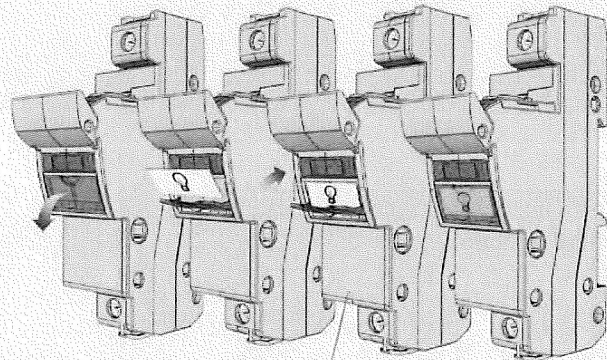
NEW

TECHNICAL

PMX MODULAR FUSE HOLDERS IDENTIFICATION BY LABEL

8x32
10x38
CC^{CLASS}
14x51
22x58

Open the **label-holder part** when the fuse holder is totally closed or totally open, put on the label and close.



NEW

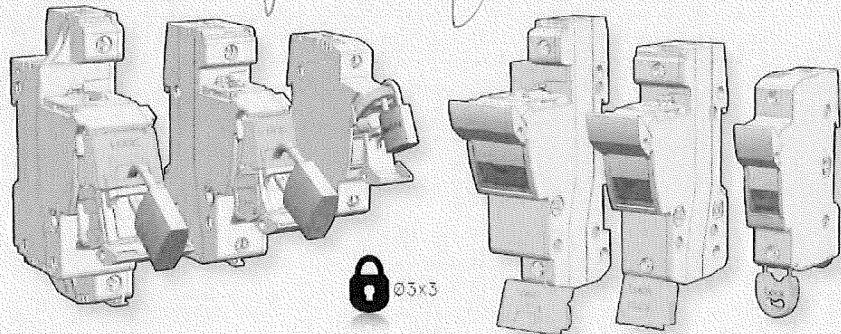
TECHNICAL

PMX MODULAR FUSE HOLDERS PADLOCK ACCESSORY

8x32
10x38
CC^{CLASS}
14x51
22x58

To avoid the operation and connection when the fuseholder is open, introduce the padlock accessory into the symmetrical holes.

All accessories allow using three padlocks at the same time and have a repose mode.



NEW

CYLINDRICAL FUSE HOLDERS

TECHNICAL

PMX MODULAR FUSE HOLDERS SPECIAL IP20 PROTECTION

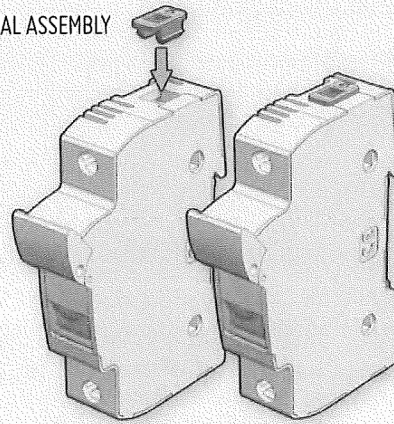
8x32
10x38
CC^{CLASS}
14x51
22x58

The accessory must be positioned in the wire entries, if it's necessary to achieve the IP20 degree of protection with thin wires.

SIZE	SECTION FLEXIBLE WIRE (mm ²)	SECTION SOLID WIRE (mm ²)	LENGTH (mm)
8x32	≤6	≤10	10
10x38	≤6	≤10	10
14x51	≤10	≤16	14
22x58	≤16	≤25	18

NEW

MANUAL ASSEMBLY



TECHNICAL

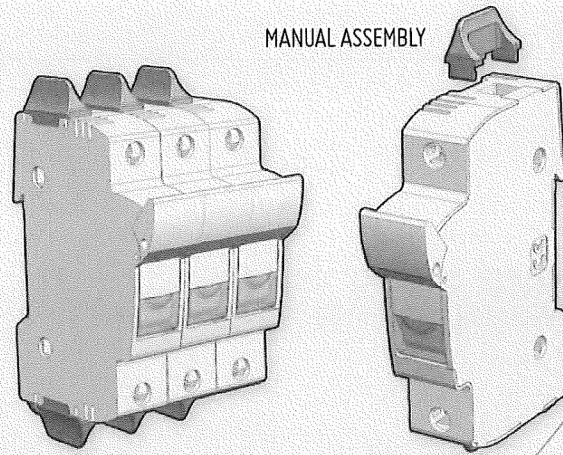
PMX MODULAR FUSE HOLDERS PHASE SEPARATORS ACCESSORY

8x32
10x38
CC^{CLASS}

The accessory increases the distance between phases in multipolar assemblies.

NEW

MANUAL ASSEMBLY



TECHNICAL

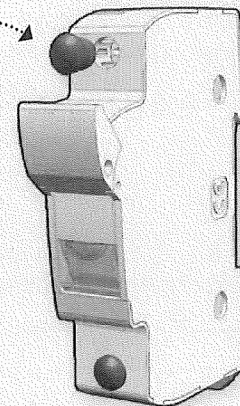
PMX MODULAR FUSE HOLDERS SCREW PROTECTION ACCESSORY

8x32
10x38
CC^{CLASS}
14x51

Protection accessory to avoid the screws manipulation and improve the protection degree.

NEW

MANUAL ASSEMBLY

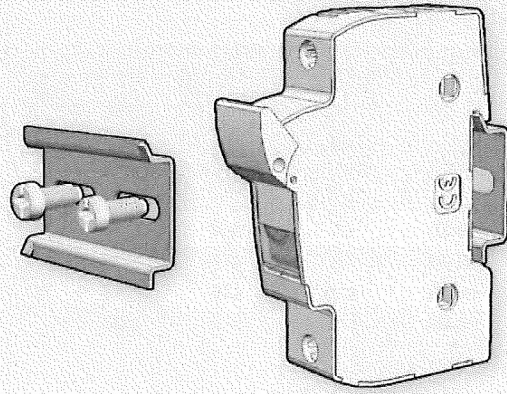


CYLINDRICAL FUSE HOLDERS

TECHNICAL
PMX MODULAR FUSE HOLDERS
 SCREW FIXATION ACCESSORY

8x32
10x38 First mount the accessory with screws, then mount the fuseholder (there are available differents accessories depending the number of the fuseholder).

REFERENCE	DESCRIPTION
485650	25MM SCREW FIXATION ACCESSORY
485651	50MM SCREW FIXATION ACCESSORY
485652	75MM SCREW FIXATION ACCESSORY
485653	100MM SCREW FIXATION ACCESSORY
485654	125MM SCREW FIXATION ACCESSORY
485655	175MM SCREW FIXATION ACCESSORY

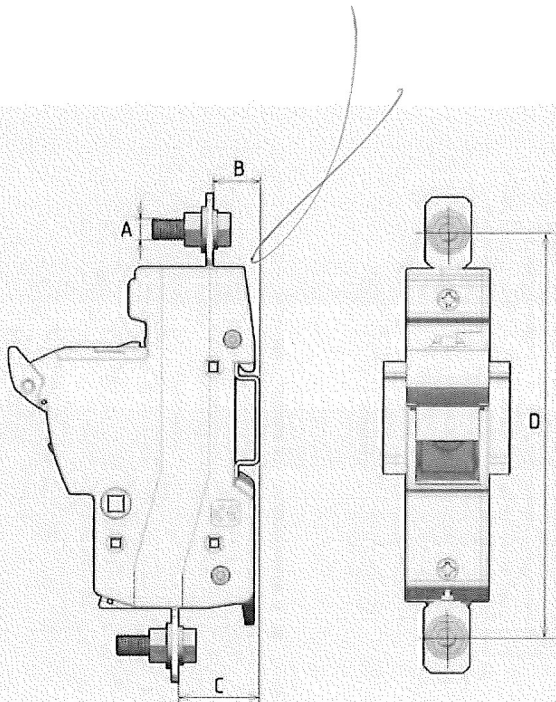


NEW

TECHNICAL
PMX MODULAR FUSE HOLDERS
 SPECIAL ACCESSORY FOR SCREW CONNECTION

14x51
22x58

SIZE	REFERENCE	A	B (mm)	C (mm)	D (mm)
14x51	485271	M6	14,5	25	128,5
22x58	485367	M8	15	23,5	154,5



NEW

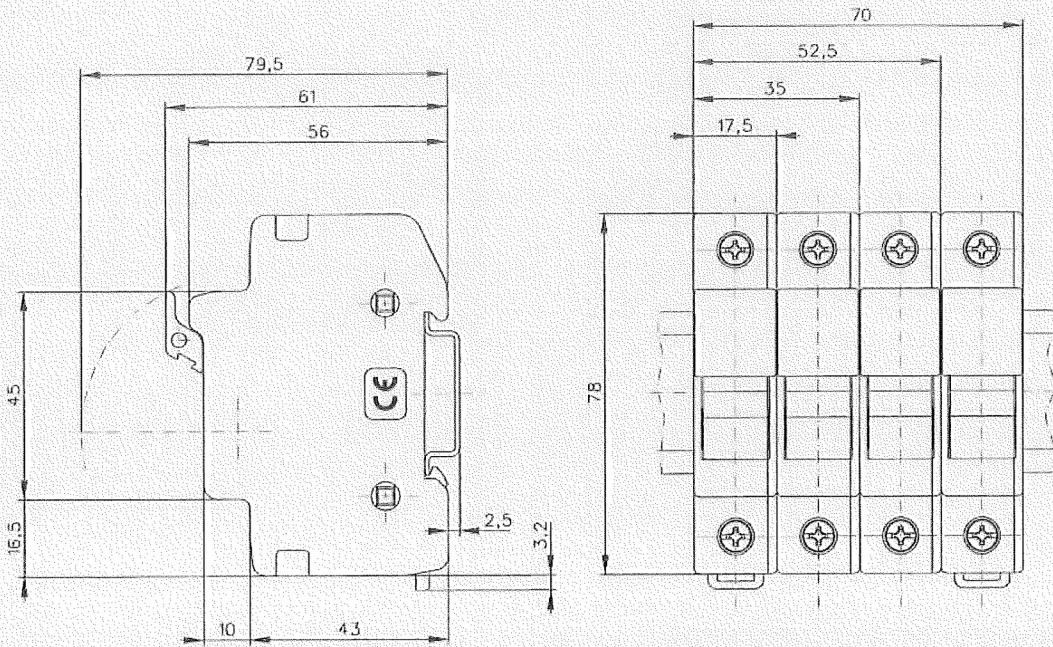
CYLINDRICAL FUSE HOLDERS

TECHNICAL

PMF

MODULAR FUSE HOLDERS DIMENSIONS

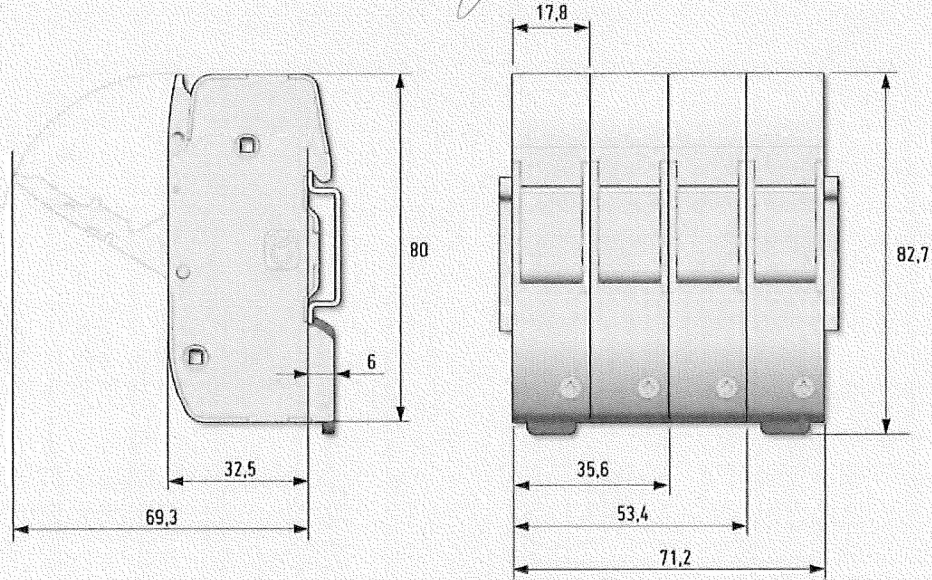
PMCC



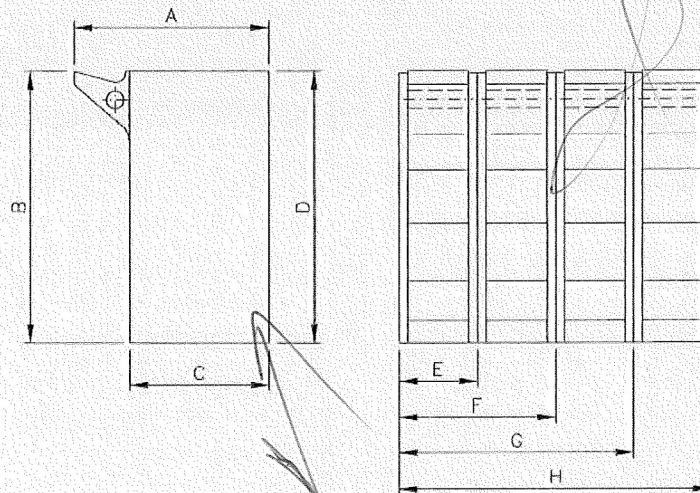
336

CYLINDRICAL FUSE HOLDERS

TECHNICAL
PMC COMPACT FUSE HOLDERS
DIMENSIONS



TECHNICAL
SC SCREW FIXING FUSE HOLDERS
DIMENSIONS

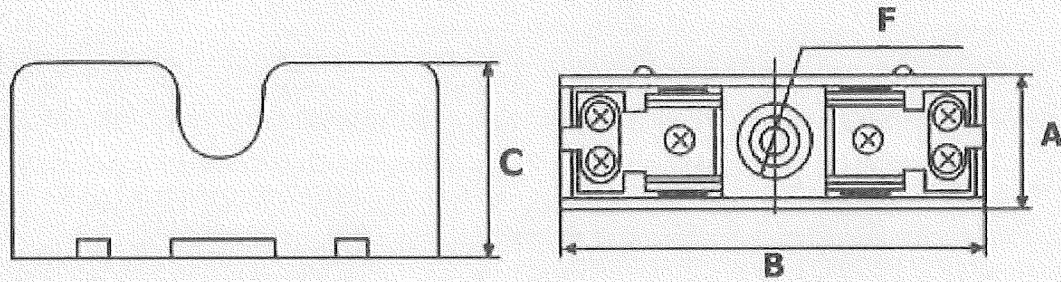


SIZE	A	B	C	D	E	F	G	H
8,5x32	45	61	32	61	18	36	54	72
10x38	50	78	34	75	21	42	63	84
14x51	58	98	42	95	30	60	90	120
22x58	71	108	56	108	36	72	108	144

CYLINDRICAL FUSE HOLDERS

NEW

TECHNICAL
BAC OPEN FUSE HOLDERS
 DIMENSIONS

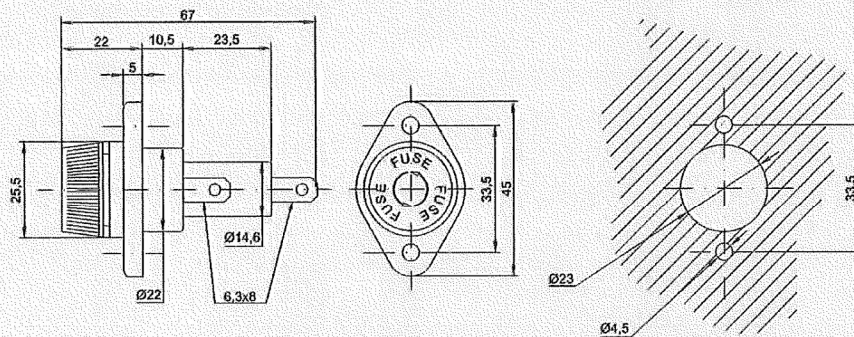


SIZE	A	B	C	ØF
10x38	24	81	35	4
14x51	30	91	37	5
22x58	37	108	48	6

TECHNICAL
PMP PANEL MOUNTING FUSE HOLDERS
 DIMENSIONS

NEW

BAYONET



CYLINDRICAL FUSES

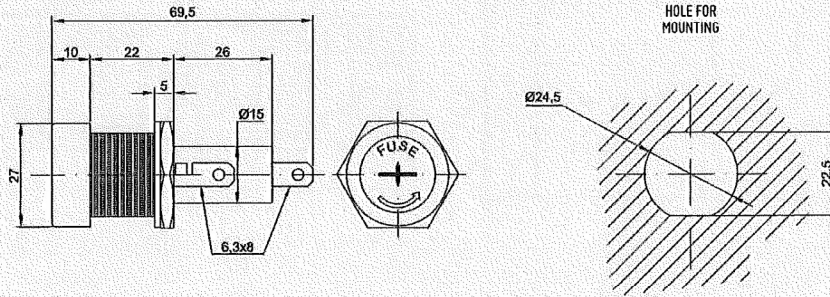


NEW

TECHNICAL

PMP PANEL MOUNTING FUSE HOLDERS DIMENSIONS

SCREW



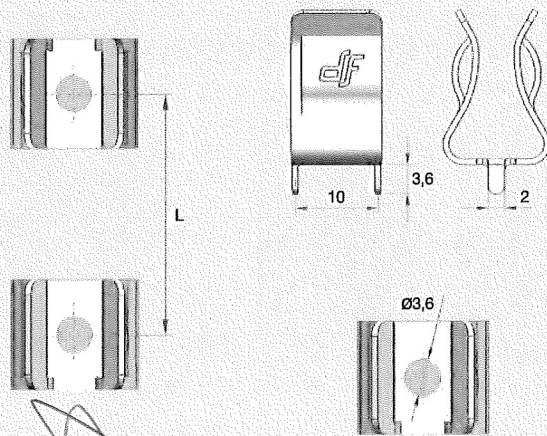
TECHNICAL

CLIP CONTACT FOR Ø10 FUSE-LINKS DIMENSIONS

10x38
10x85

NEW

INSTALLATION INSTRUCTIONS



Ø10 CLIP CONTACT FOR PCB

SIZE	L
10x38	42
10x85	89,6

Ø10 CLIP CONTACT SCREW

SIZE	L
10x38	32
10x85	79,6

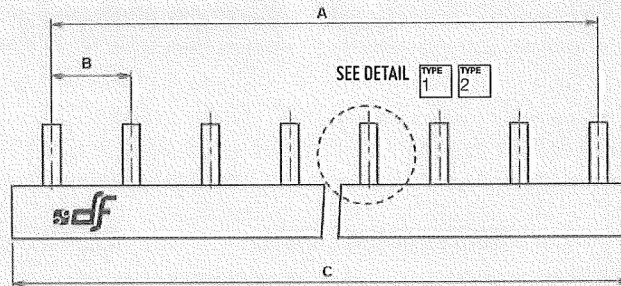
CYLINDRICAL FUSE HOLDERS

NEW

TECHNICAL

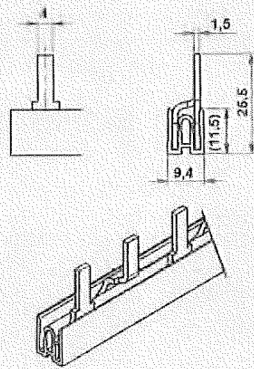
PMF
PMX
PMC
PMCC

PHASE BUSBARS DIMENSIONS

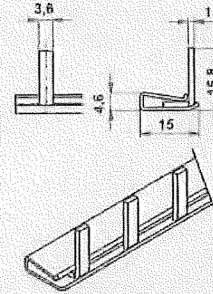


REFERENCE	MODULES	A	B	C	TYPE	END COVER
485600	13	213,6	17,8	229,8 ⁺²	2	485605
485601	57	996,8	17,8	1012 ⁺²	2	485605
485602	12	195,8	17,8	212 ⁺²	1	-

TYPE
1



TYPE
2



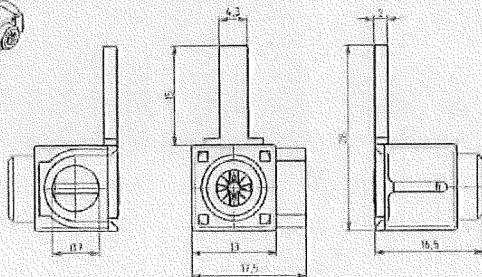
TECHNICAL

PMF
PMX
PMC
PMCC

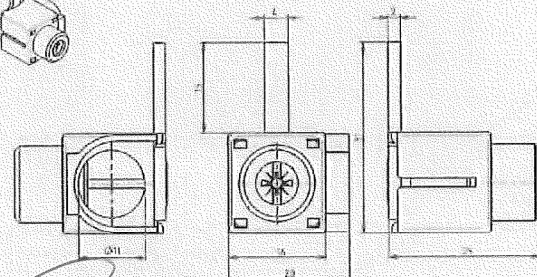
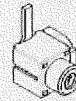
ACCESSORIES FOR PHASE BUSBARS DIMENSIONS

NEW

485603



485604



338

Electric

ELECTRONIC



CYLINDRICAL



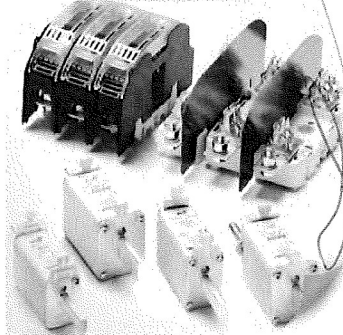
PHOTOVOLTAIC



RAPIDPLUS



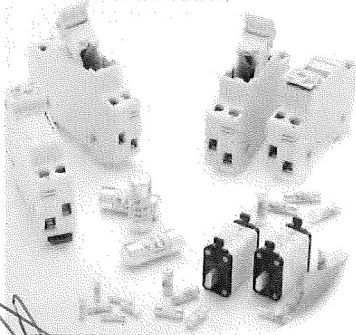
NH



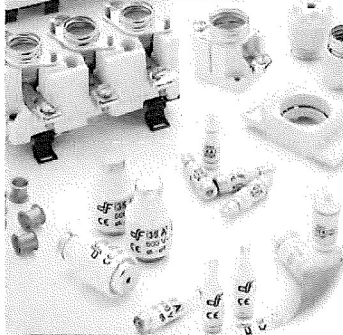
SPECIAL FUSES



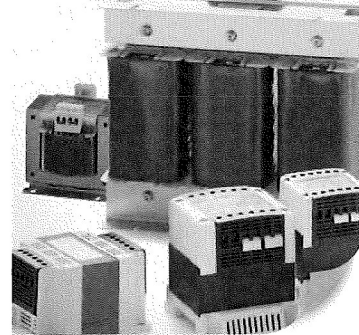
DOMESTIC



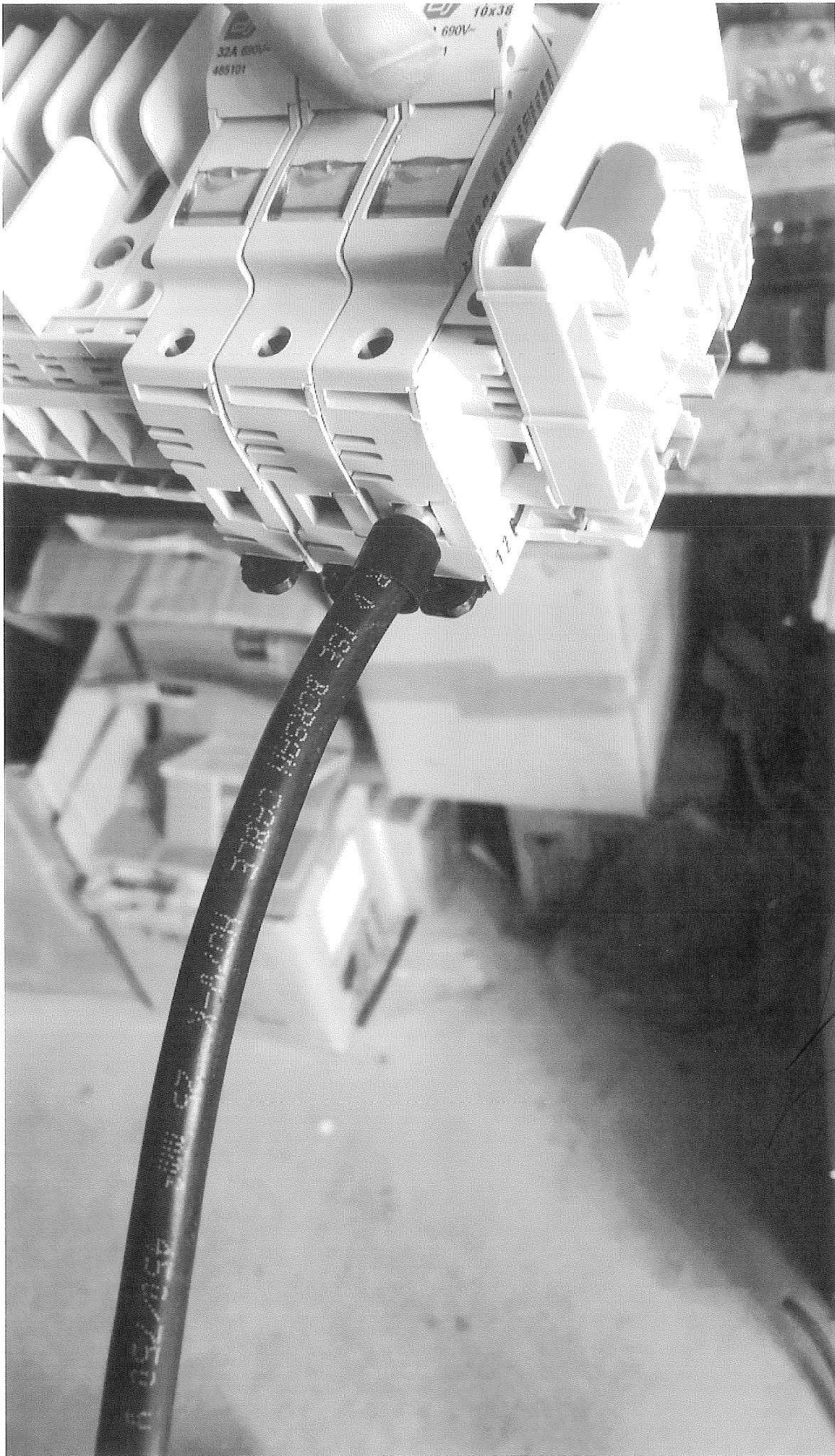
D & DO



TRANSFORMERS



eXperts in
PROTECTION



[Handwritten scribbles and lines]

df Electric



fuses

CYLINDRICAL



df
15 A
500 V
I=60 kA
L=120 mA

df
15 A
500 V
I=60 kA
L=120 mA

df
15 A
500 V
I=60 kA
L=120 mA

df
15 A
500 V
I=60 kA
L=120 mA

df
15 A
500 V
I=60 kA
L=120 mA

df
15 A
500 V
I=60 kA
L=120 mA

df
15 A
500 V
I=60 kA
L=120 mA

df
25 A
500 V
I=60 kA
L=120 mA

df
12 A
500 V
I=60 kA
L=120 mA

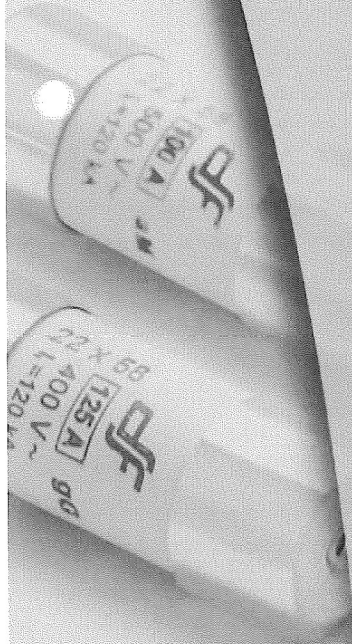
df
15 A
500 V
I=60 kA
L=120 mA

df
15 A
500 V
I=60 kA
L=120 mA

CYLINDRICAL FUSES

PAGE 02 |
PAGE 04 |

gG CYLINDRICAL FUSES
aM CYLINDRICAL FUSES



Handwritten signature

Handwritten signature

341

CYLINDRICAL FUSES



gG CYLINDRICAL FUSES

Cylindrical fuse links gG class for use as general protection against overloads and short circuits, intended as protection of cables, power lines and equipment. Made of ceramic tube with high withstand to internal pressure and thermal shock, that allow a high breaking capacity in a reduced physical space. The melting elements are specially designed in order to avoid aging and thus maintain unalterable the electrical characteristics. Contact caps are made of silver plated copper. Versions available with fusing indicator or with striker for use in fuse holders with microswitch.

www.df-sa.es/cylindrical/fuses/gG/

	In (A)	REFERENCE		U (V)	BREAKING CAPACITY (kA)	REFERENCE WITH STRIKER	U (V)	BREAKING CAPACITY (kA)	PACKING Uni./BOX
		WITHOUT INDICATOR	WITH INDICATOR						
8x32	0,5	420500	-	400	20	-	-	-	10/100
	1	420501	-	400	20	-	-	-	10/100
	2	420502	420602	400	20	-	-	-	10/100
	4	420504	420604	400	20	-	-	-	10/100
	6	420506	420606	400	20	-	-	-	10/100
	8	420508	420608	400	20	-	-	-	10/100
	10	420510	420610	400	20	-	-	-	10/100
	12	420512	420612	400	20	-	-	-	10/100
	16	420516	420616	400	20	-	-	-	10/100
	20	420720	420820	400	20	-	-	-	10/100
10x38	0,5	420000	-	500	120	-	-	-	10/100
	1	420001	-	500	120	-	-	-	10/100
	2	420002	420102	500	120	-	-	-	10/100
	4	420004	420104	500	120	-	-	-	10/100
	6	420006	420106	500	120	-	-	-	10/100
	8	420008	420108	500	120	-	-	-	10/100
	10	420010	420110	500	120	-	-	-	10/100
	12	420012	420112	500	120	-	-	-	10/100
	16	420016	420116	500	120	-	-	-	10/100
	20	420020	420120	500	120	-	-	-	10/100
	25	420025	420125	500	120	-	-	-	10/100
	32	420032	420132	400	120	-	-	-	10/100
14x51	1	421001	-	690	80	-	-	-	10/50
	2	421002	421102	690	80	421202	500	120	10/50
	4	421004	421104	690	80	421204	500	120	10/50
	6	421006	421106	690	80	421206	500	120	10/50
	8	421008	421108	690	80	421208	500	120	10/50
	10	421010	421110	690	80	421210	500	120	10/50
	12	421012	421112	690	80	421212	500	120	10/50
	16	421016	421116	690	80	421216	500	120	10/50
	20	421020	421120	690	80	421220	500	120	10/50
	25	421025	421125	690	80	421225	500	120	10/50
	32	421032	421132	500	120	421232	500	120	10/50
	40	421040	421140	500	120	421240	500	120	10/50
50	421050	421150	400	120	421250	400	120	10/50	



STANDARDS IEC 60269-1 IEC 60269-2 EN 60269-1 EN 60269-2	APPROVALS CFLP RoHS	TECHNICAL I-LAND C-OF-OFF CHARACTERISTICS PAGE 13	TECHNICAL I-LC CHARACTERISTICS AND POWER DISSIPATION PAGE 14	TECHNICAL DC APPLICATIONS FOR CYLINDRICAL FUSES PAGE 28	COMPATIBLE PMX MODULAR FUSE HOLDERS PAGE 06	COMPATIBLE PMC & PMX-CC FUSE HOLDERS PAGE 09	COMPATIBLE PMF MODULAR F-SE HOLDERS PAGE 10	COMPATIBLE SC SCREW FIXING & BAC OPEN FUSE HOLDERS PAGE 11	COMPATIBLE PMP PANEL MOUNTING & PMB SOCKET FUSE HOLDERS PAGE 12
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CYLINDRICAL FUSES



gG CYLINDRICAL FUSES

I _n (A)	REFERENCE		U (V)	BREAKING CAPACITY (kA)	REFERENCE WITH STRIKER	U (V)	BREAKING CAPACITY (kA)	PACKING Uni./BOX	
	WITHOUT INDICATOR	WITH INDICATOR							
22x58	2	422002	422102	690	80	-	-	10/5	
	4	422004	422104	690	80	422204	690	80	10/5
	6	422006	422106	690	80	422206	690	80	10/5
	8	422008	422108	690	80	422208	690	80	10/5
	10	422010	422110	690	80	422210	690	80	10/5
	12	422012	422112	690	80	422212	690	80	10/5
	16	422016	422116	690	80	422216	690	80	10/5
	20	422020	422120	690	80	422220	690	80	10/5
	25	422025	422125	690	80	422225	690	80	10/5
	32	422032	422132	690	80	422232	690	80	10/5
	40	422040	422140	690	80	422240	690	80	10/5
	50	422050	422150	690	80	422250	690	80	10/5
	63	422063	422163	690	80	422263	690	80	10/5
	80	422080	422180	500	120	422280	500	120	10/5
	100	422000	422100	500	120	422200	500	120	10/5
	125*	422015	422115	400	120	422215	400	120	10/5

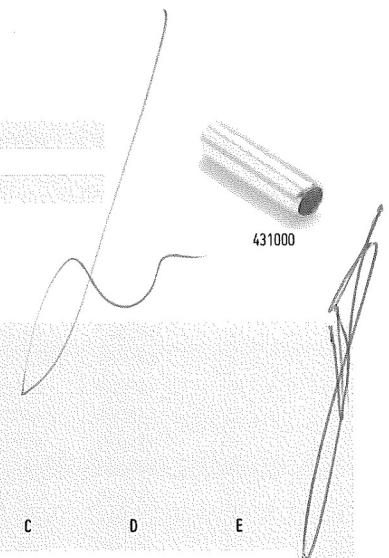
* OVERRATING FUSES



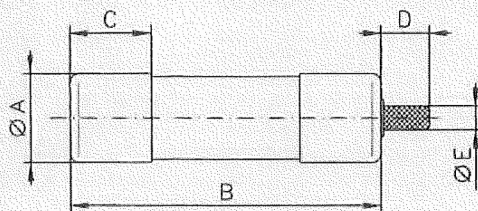
gG aM NEUTRAL LINKS

8x32
10x38
14x51
22x58

SIZE	REFERENCE	PACKING Uni./BOX
8x32	430000	10/100
10x38	431000	10/100
14x51	432000	10/50
22x58	433000	10/50



TECHNICAL gG CYLINDRICAL FUSES DIMENSIONS



SIZE	A	B	C	D	E
8,5x31,5	8,5	31,5	6,3	-	-
10,3x38	10,3	38	8,5	-	-
14,3x51	14,3	51	11,5	8	4
22,2x58	22,2	58	15,5	8	4

CYLINDRICAL FUSES



aM CYLINDRICAL FUSES

Cylindrical fuse links aM class are intended for short circuit protection in motors, transformer and other load with high inrush currents. Excellent protection of switchgear (contactor, thermal switch) due to the good current limiting capability and low I^2t values. These fuse links must be associated to an overload device protection as a thermal switch. Made of ceramic tube with high withstand to internal pressure and thermal shock, that allow a high breaking capacity in a reduced physical space. The melting elements are silver plated in order to avoid the aging and thus keep unalterable the electric characteristics. Contacts caps are made of silver plated copper. Available versions with fusing indicator or with striker for use in fuse holders with microswitch.

www.df-sa.es/cylindrical/fuses/aM/

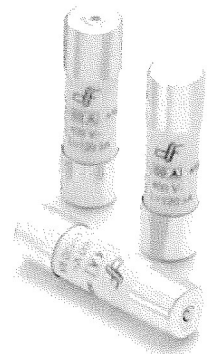
	I _n (A)	REFERENCE		U (V)	BREAKING CAPACITY (kA)	REFERENCE WITH STRIKER	U (V)	BREAKING CAPACITY (kA)	PACKING Uni./BOX
		WITHOUT INDICATOR	WITH INDICATOR						
8x32	1	411101	411201	400	20	-	-	-	10/100
	2	411102	411202	400	20	-	-	-	10/100
	4	411104	411204	400	20	-	-	-	10/100
	6	411106	411206	400	20	-	-	-	10/100
	8	411108	-	400	20	-	-	-	10/100
	10	411110	411210	400	20	-	-	-	10/100
10x38	0,16	440031	-	500	120	-	-	-	10/100
	0,25	440033	-	500	120	-	-	-	10/100
	0,5	440000	-	500	120	-	-	-	10/100
	1	440001	440101	500	120	-	-	-	10/100
	2	440002	440102	500	120	-	-	-	10/100
	4	440004	440104	500	120	-	-	-	10/100
	6	440006	440106	500	120	-	-	-	10/100
	8	440008	440108	500	120	-	-	-	10/100
	10	440010	440110	500	120	-	-	-	10/100
	12	440012	440112	500	120	-	-	-	10/100
	16	440016	440116	500	120	-	-	-	10/100
	20	440020	440120	400	120	-	-	-	10/100
25	440025	440125	400	120	-	-	-	10/100	
14x51	0,25	441031	-	690	80	-	-	-	10/50
	0,5	441000	-	690	80	-	-	-	10/50
	1	441001	441101	690	80	441201	500	120	10/50
	2	441002	441102	690	80	441202	500	120	10/50
	4	441004	441104	690	80	441204	500	120	10/50
	6	441006	441106	690	80	441206	500	120	10/50
	8	441008	441108	690	80	441208	500	120	10/50
	10	441010	441110	690	80	441210	500	120	10/50
	12	441012	441112	690	80	441212	500	120	10/50
	16	441016	441116	690	80	441216	500	120	10/50
	20	441020	441120	690	80	441220	500	120	10/50
	25	441025	441125	690	80	441225	500	120	10/50
	32	441032	441132	500	120	441232	500	120	10/50
	40	441040	441140	500	120	441240	500	120	10/50
45	441045	441145	500	120	441245	500	120	10/50	
50	441050	441150	400	120	441250	400	120	10/50	



411106



440006



STANDARDS
IEC 60269-1
IEC 60269-2
EN 60269-1
EN 60269-2

APPROVALS
Cd-Pb
RoHS
REACH

TECHNICAL
I-TIME CUT-OFF CHARACTERISTICS
PAGE 15

TECHNICAL
I²t CHARACTERISTICS AND POWER DISSIPATION
PAGE 16

COMPATIBLE
PWX MODULAR FUSE HOLDERS
PAGE 06

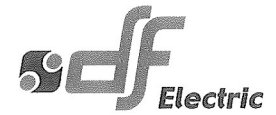
COMPATIBLE
PWC & PWC-CC FUSE HOLDERS
PAGE 09

COMPATIBLE
PWF MODULAR FUSE HOLDERS
PAGE 10

COMPATIBLE
SC SCREW FIXING & SAC OPEN FUSE HOLDERS
PAGE 11

COMPATIBLE
PWP PANEL MOUNTING & PWS SOCKET FUSE HOLDERS
PAGE 12

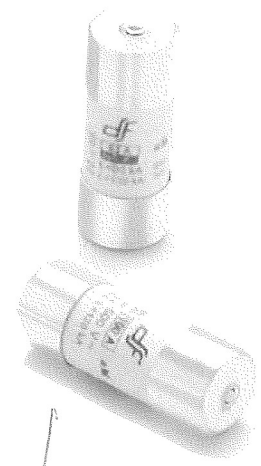
CYLINDRICAL FUSES



aM CYLINDRICAL FUSES

In (A)	REFERENCE		U (V)	BREAKING CAPACITY (kA)	REFERENCE WITH STRIKER	U (V)	BREAKING CAPACITY (kA)	PACKING Uni./BOX	
	WITHOUT INDICATOR	WITH INDICATOR							
22x58	2	442002	442102	690	80	442202	690	80	10/50
	4	442004	442104	690	80	442204	690	80	10/50
	6	442006	442106	690	80	442206	690	80	10/50
	8	442008	442108	690	80	442208	690	80	10/50
	10	442010	442110	690	80	442210	690	80	10/50
	12	442012	442112	690	80	442212	690	80	10/50
	16	442016	442116	690	80	442216	690	80	10/50
	20	442020	442120	690	80	442220	690	80	10/50
	25	442025	442125	690	80	442225	690	80	10/50
	32	442032	442132	690	80	442232	690	80	10/50
	40	442040	442140	690	80	442240	690	80	10/50
	50	442050	442150	690	80	442250	690	80	10/50
	63	442063	442163	690	80	442263	690	80	10/50
	80	442080	442180	500	120	442280	500	120	10/50
	100	442000	442100	500	120	442200	500	120	10/50
	125*	442015	442115	400	120	442215	400	120	10/50

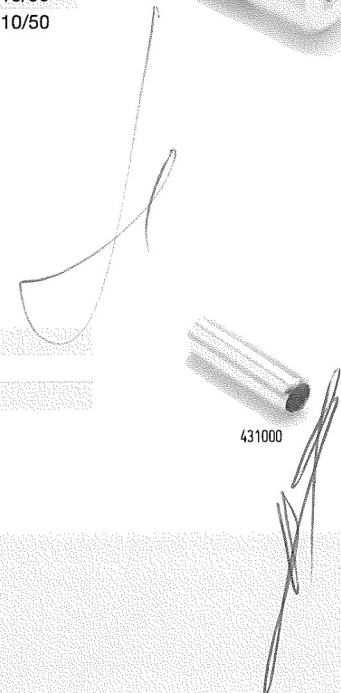
* OVERRATING FUSES



gG aM NEUTRAL LINKS

8x32
10x38
14x51
22x58

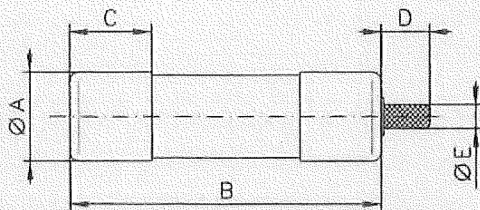
SIZE	REFERENCE	PACKING Uni./BOX
8x31	430000	10/100
10x38	431000	10/100
14x51	432000	10/50
22x58	433000	10/50



431000

TECHNICAL

aM CYLINDRICAL FUSES DIMENSIONS

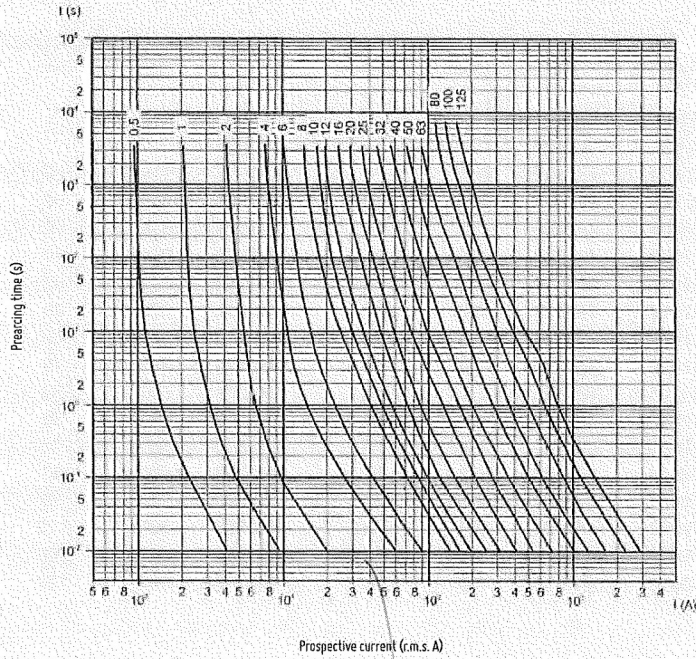


SIZE	A	B	C	D	E
8,5x31,5	8,5	31,5	6,3	-	-
10,3x38	10,3	38	8,5	-	-
14,3x51	14,3	51	11,5	8	4
22,2x58	22,2	58	15,5	8	4

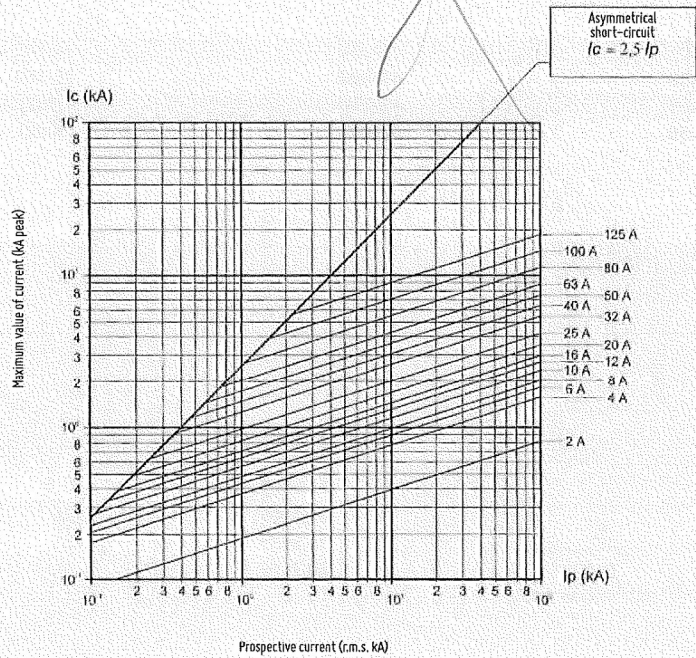
CYLINDRICAL FUSES



TECHNICAL
gG CYLINDRICAL FUSES
 t-I CHARACTERISTICS



TECHNICAL
gG CYLINDRICAL FUSES
 CUT-OFF CHARACTERISTICS



CYLINDRICAL FUSES



TECHNICAL



CYLINDRICAL FUSES I²t CHARACTERISTICS

I _n (A)	I ² t Prearcing (A ² s)	I ² t 400 V (A ² s)	I ² t 500 V (A ² s)	I ² t 690 V (A ² s)
0,5	4,0	8,6	10,4	15,0
1	6,5	13,2	15,7	22,0
2	7,0	14,6	17,6	25,0
4	45	90	108	150
6	70	140	166	230
8	80	158	188	260
10	120	248	297	420
12	180	362	431	600
16	270	536	636	880
20	500	981	1.162	1.600
25	800	1.688	2.034	2.900
32	1.200	2.412	2.871	4.000
40	2.500	4.907	5.808	8.000
50	5.100	11.262	13.728	20.000
63	7.900	16.451	19.762	28.000
80	16.000	37.242	46.000	-
100	28.000	68.072	85.000	-
125	40.000	120.000	-	-

TECHNICAL

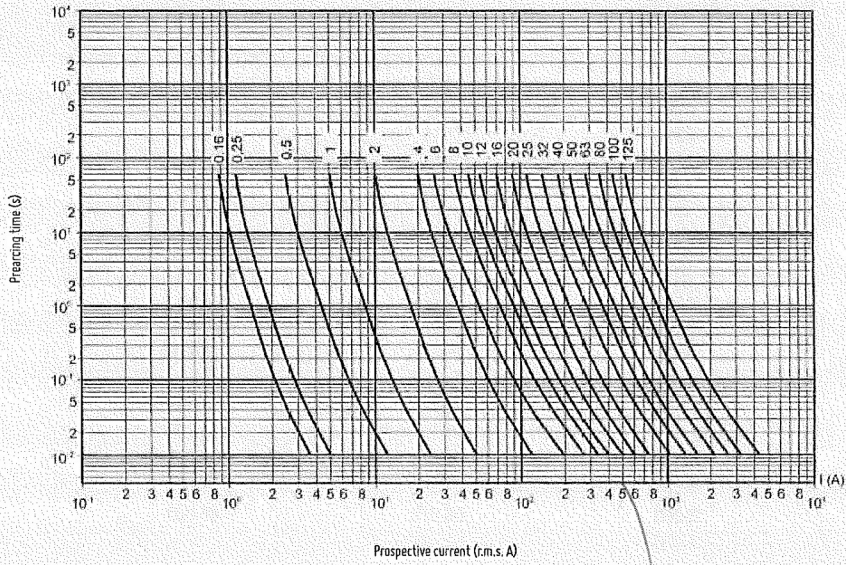


CYLINDRICAL FUSES POWER DISSIPATION

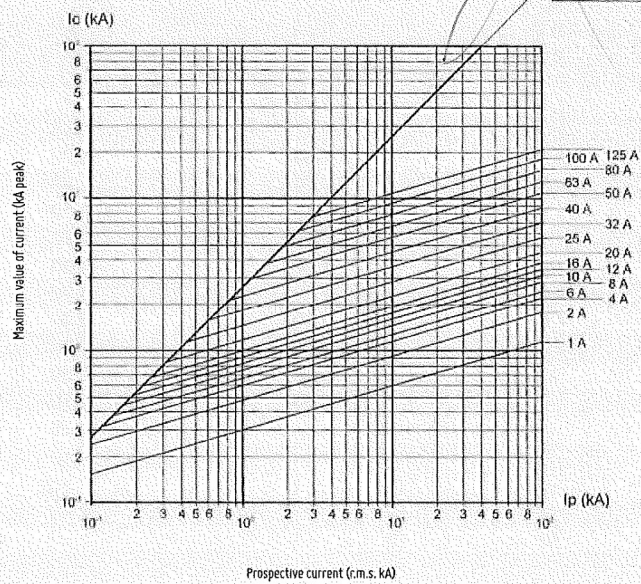
I _n (A)	SIZE			
	8,5x32 (VW)	10x38 (VW)	14x51 (VW)	22x58 (VW)
0,5	1,2	1,43	-	-
1	2,0	2,77	3,90	-
2	0,5	0,60	0,90	1,00
4	0,8	0,70	1,00	1,10
6	1,1	0,85	1,15	1,30
8	1,3	0,75	1,00	1,10
10	1,0	1,00	1,30	1,50
12	1,2	1,30	1,70	1,80
16	1,5	1,60	2,00	2,10
20	2,0	2,00	2,50	2,70
25	-	2,60	3,30	3,30
32	-	2,90	3,50	3,50
40	-	-	4,75	4,00
50	-	-	4,80	5,50
63	-	-	-	6,90
80	-	-	-	7,80
100	-	-	-	9,00
125	-	-	-	11,4

CYLINDRICAL FUSES

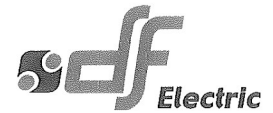
TECHNICAL
aM CYLINDRICAL FUSES
t-I CHARACTERISTICS



TECHNICAL
aM CYLINDRICAL FUSES
CUT-OFF CHARACTERISTICS



CYLINDRICAL FUSES



TECHNICAL

aM CYLINDRICAL FUSES I²t CHARACTERISTICS

I _n (A)	I ² t Prearcing (A ² s)	I ² t 400 V (A ² s)	I ² t 500 V (A ² s)	I ² t 690 V (A ² s)
0,16	3,0	6,7	8,2	12,0
0,25	4,0	8,6	10,4	15,0
0,5	6,5	13,2	15,7	22,0
1	9,5	18,5	21,9	30,0
2	40	83	99	140
4	90	181	215	300
6	120	250	300	425
8	220	448	535	750
10	300	733	916	1.400
12	380	936	1.173	1.800
16	550	1.608	2.103	3.500
20	950	2.488	3.165	5.000
25	1.300	3.728	4.851	8.000
32	2.500	6.207	7.791	12.000
40	4.500	10.685	13.263	20.000
45	8.000	16.538	19.831	28.000
50	10.000	19.626	23.230	32.000
63	15.000	31.520	37.950	54.000
80	30.000	59.088	70.000	-
100	50.000	113.945	140.000	-
125	80.000	200.000	-	-

TECHNICAL

aM CYLINDRICAL FUSES POWER DISSIPATION

I _n (A)	SIZE			
	8,5x32 (VW)	10x38 (VW)	14x51 (VW)	22x58 (VW)
0,16	-	0,24	-	-
0,25	-	0,36	0,41	-
0,5	-	0,49	0,69	-
1	0,10	0,10	0,14	-
2	0,16	0,18	0,24	0,29
4	0,25	0,31	0,45	0,48
6	0,35	0,32	0,42	0,47
8	0,40	0,52	0,70	0,73
10	0,65	0,55	0,53	0,74
12	-	0,63	0,88	0,83
16	-	0,92	1,16	1,21
20	-	0,96	1,23	1,29
25	-	1,40	1,46	1,53
32	-	-	2,04	2,13
40	-	-	2,60	3,40
45	-	-	2,85	-
50	-	-	2,90	3,48
63	-	-	-	4,46
80	-	-	-	5,86
100	-	-	-	6,61
125	-	-	-	8,42

CYLINDRICAL FUSES

TECHNICAL



CYLINDRICAL FUSES DC APPLICATIONS

Fuses are generally suitable for both AC and DC applications. The DC performance of fuse-links is different and AC ratings cannot be used for DC applications. There is no simple rule that safely converts an AC voltage rating of a fuse-link to DC voltage rating. For this reason it is necessary to take into account a lot of aspects in order to determine the DC applications.

In the DF ELECTRIC **gG cylindrical fuses** it is necessary to take into account the following considerations:

- The power dissipations are the same in AC (RMS value) and the DC values.
- The time current characteristics are the same for DC applications under steady-state conditions.
- The DC rated voltage and maximum breaking capacity are lower than the AC values (see the table).

SIZE	RATED CURRENT	MAX. DC VOLTAGE	DC BREAKING CAPACITY
8,5x31,5	0,5A...10A 12A...20A	150V DC 60V DC	5 kA
10x38	0,5A...16A 20A...32A	250V DC 80V DC	15 kA
14x51	1A...25A 32A & 40A 50A	440V DC 80V DC 48V DC	15 kA
22x58	2A...63A 80A & 100A 125A	440V DC 80V DC 48V DC	15 kA

NOTES

These values are referred to a time constant L/R = 15 ms.

For higher values of time constant, the maximum utilization voltage must be reduced.

For circuits with very inductive behaviour, we recommend to connect two fuses in series.

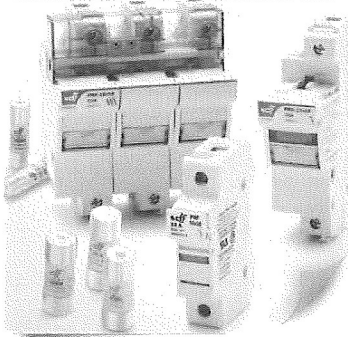
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THE PROTECTION FORMULA

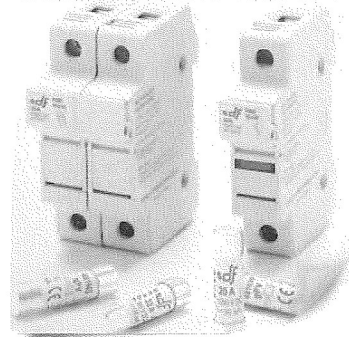
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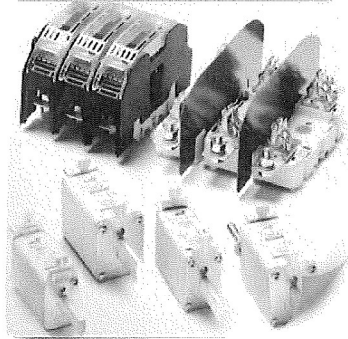
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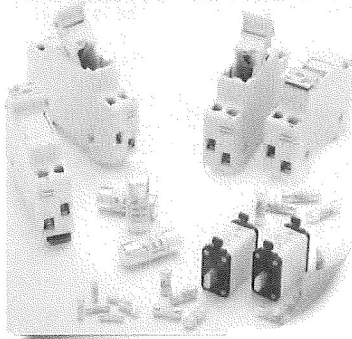
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SPECIAL FUSES



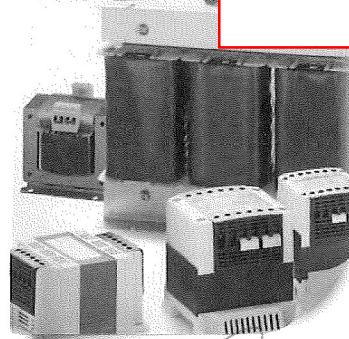
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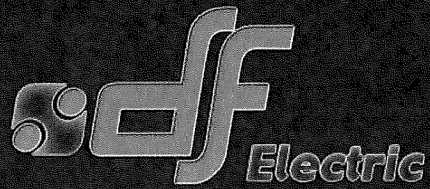


TRANSFOR



На основе чл.36а ал.3 от ЗОП

eXperts in
PROTECTION



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