



CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES



04

gG
CYL
fuse links



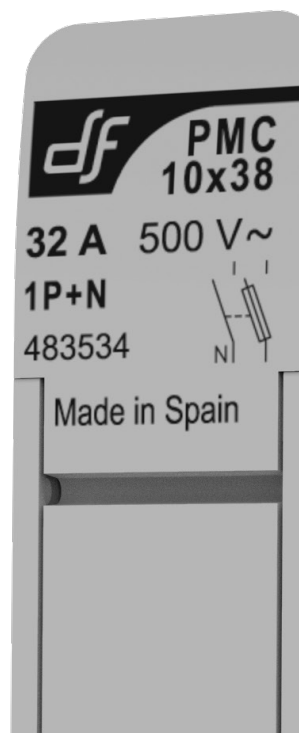
07

aM
CYL
fuse links



10

PMX
CYL
fuse holders



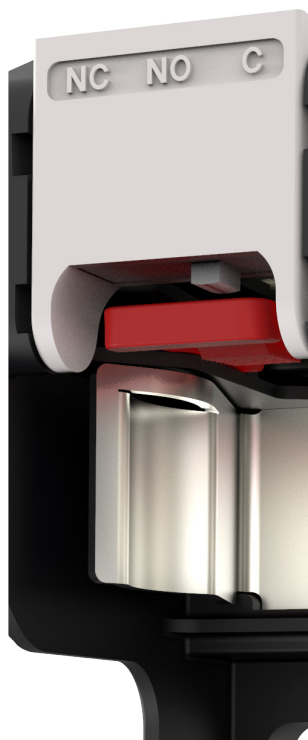
13

PMC
CYL
compact
fuse holders



14

PMX-CC
CYL
fuse holders



15

BAC
OPEN TYPE
CYL
fuse bases



16

CLIP
CONTACT
CYL
Ø10 fuse links



gG CYLINDRICAL fuse links

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.



U **400V**

BREAKING CAPACITY **20kA**

NEUTRAL LINK

I_n
(A)

REFERENCE

WITHOUT
INDICATOR

WITH
INDICATOR

PACKING

Uni /BOX

			
0,5	420500	—	10/100
1	420501	—	10/100
2	420502	420602	10/100
4	420504	420604	10/100
6	420506	420606	10/100
8	420508	420608	10/100
10	420510	420610	10/100
12	420512	420612	10/100
16	420516	420616	10/100
20	420720	420820	10/100



U **500V**

BREAKING CAPACITY **120kA**

U **400V**

BREAKING CAPACITY **120kA**

NEUTRAL LINK

0,5	420000	—	10/100
1	420001	—	10/100
2	420002	420102	10/100
4	420004	420104	10/100
6	420006	420106	10/100
8	420008	420108	10/100
10	420010	420110	10/100
12	420012	420112	10/100
16	420016	420116	10/100
20	420020	420120	10/100
25	420025	420125	10/100



32	420032	420132	10/100
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431000

10/100

STANDARDS

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

DIMENSIONS POWER DISSIPATION

PAG 17

t-I | CUT-OFF | I₂t CHARACTERISTICS

PAG 18

DC APPLICATIONS FOR CYLINDRICAL FUSE LINKS

PAG 41

COMPATIBLE PMX | PMC | CLIP CONTACT Ø10

PAG 10 ^{PMX}
PAG 13 ^{PMC}

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES

14x51	
U	690V
BREAKING CAPACITY	80kA
U	500V
BREAKING CAPACITY	120kA
U	400V
BREAKING CAPACITY	120kA
NEUTRAL LINK	

In (A)	REFERENCE		PACKING Uni /BOX
	WITHOUT INDICATOR	WITH INDICATOR	
1	421001	—	10/50
2	421002	421102	10/50
4	421004	421104	10/50
6	421006	421106	10/50
8	421008	421108	10/50
10	421010	421110	10/50
12	421012	421112	10/50
16	421016	421116	10/50
20	421020	421120	10/50
25	421025	421125	10/50
32	421032	421132	10/50
40	421040	421140	10/50
50	421050	421150	10/50
432000			10/50



22x58	
U	690V
BREAKING CAPACITY	80kA
U	500V
BREAKING CAPACITY	120kA
NEUTRAL LINK	

2	422002	422102	10/50
4	422004	422104	10/50
6	422006	422106	10/50
8	422008	422108	10/50
10	422010	422110	10/50
12	422012	422112	10/50
16	422016	422116	10/50
20	422020	422120	10/50
25	422025	422125	10/50
32	422032	422132	10/50
40	422040	422140	10/50
50	422050	422150	10/50
63	422063	422163	10/50
80	422080	422180	10/50
100	422000	422100	10/50
125	422015	422115	10/50
433000			10/50



STANDARDS

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

DIMENSIONS POWER DISSIPATION

PAG 17

t-I | CUT-OFF | I²t CHARACTERISTICS

PAG 18

DC APPLICATIONS FOR CYLINDRICAL FUSE LINKS

PAG 41

COMPATIBLE PMX | BAC

PAG 10 ^{PMX}
PAG 15 ^{BAC}

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES

14x51	
U	500V
BREAKING CAPACITY	120kA
U	400V
BREAKING CAPACITY	120kA
NEUTRAL LINK	

In (A)	REFERENCE WITH STRIKER	PACKING Uni /BOX
2	421202	10/50
4	421204	10/50
6	421206	10/50
8	421208	10/50
10	421210	10/50
12	421212	10/50
16	421216	10/50
20	421220	10/50
25	421225	10/50
32	421232	10/50
40	421240	10/50
50	421250	10/50
	432000	10/50



22x58	
U	690V
BREAKING CAPACITY	80kA
U	500V
BREAKING CAPACITY	120kA
OVERRATING FUSES	
U	400V
BREAKING CAPACITY	120kA
NEUTRAL LINK	

4	422204	10/50
6	422206	10/50
8	422208	10/50
10	422210	10/50
12	422212	10/50
16	422216	10/50
20	422220	10/50
25	422225	10/50
32	422232	10/50
40	422240	10/50
50	422250	10/50
63	422263	10/50
80	422280	10/50
100	422200	10/50
125	422215	10/50
	433000	10/50



STANDARDS

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

DIMENSIONS POWER DISSIPATION

PAG 17

t-I | CUT-OFF | I²t CHARACTERISTICS

PAG 18

DC APPLICATIONS FOR CYLINDRICAL FUSE LINKS

PAG 41

COMPATIBLE PMX | BAC

PAG 10 ^{PMX}
PAG 15 ^{BAC}

aM CYLINDRICAL fuse links

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.

8x32

U **400V**

BREAKING CAPACITY **20kA**

NEUTRAL LINK

I_n
(A)

REFERENCE

PACKING

WITHOUT
INDICATOR

WITH
INDICATOR

Uni /BOX

		WITHOUT INDICATOR	WITH INDICATOR	
	1	411101	411201	10/100
	2	411102	411202	10/100
	4	411104	411204	10/100
	6	411106	411206	10/100
	8	411108	—	10/100
	10	411110	411210	10/100

		430000		10/100
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10x38

U **500V**

BREAKING CAPACITY **120kA**

NEUTRAL LINK

	0,16	440031	—	10/100
	0,25	440033	—	10/100
	0,5	440000	—	10/100
	1	440001	440101	10/100
	2	440002	440102	10/100
	4	440004	440104	10/100
	6	440006	440106	10/100
	8	440008	440108	10/100
	10	440010	440110	10/100
	12	440012	440112	10/100
	16	440016	440116	10/100
	20	440020	440120	10/100
	25	440025	440125	10/100
	32	440032	440132	10/100

		431000		10/100
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STANDARDS

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

DIMENSIONS POWER DISSIPATION

PAG 19

t-I | CUT-OFF | I^2t CHARACTERISTICS

PAG 20

DC APPLICATIONS FOR CYLINDRICAL FUSE LINKS

PAG 41

COMPATIBLE PMX | PMF

PAG 10 ^{PMX}

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES

14x51

U **690V**

BREAKING CAPACITY **80kA**

U **500V**

BREAKING CAPACITY **120kA**

U **400V**

BREAKING CAPACITY **120kA**

NEUTRAL LINK

In
(A)

REFERENCE

WITHOUT
INDICATOR

WITH
INDICATOR

PACKING

Uni /BOX



0,25	441031	—	10/50
0,5	441000	—	10/50
1	441001	441101	10/50
2	441002	441102	10/50
4	441004	441104	10/50
6	441006	441106	10/50
8	441008	441108	10/50
10	441010	441110	10/50
12	441012	441112	10/50
16	441016	441116	10/50
20	441020	441120	10/50
25	441025	441125	10/50
32	441032	441132	10/50
40	441040	441140	10/50
45	441045	441145	10/50
50	441050	441150	10/50
432000			10/50



22x58

U **690V**

BREAKING CAPACITY **80kA**

U **500V**

BREAKING CAPACITY **120kA**

OVERRATING FUSES

U **400V**

BREAKING CAPACITY **120kA**

NEUTRAL LINK

2	442002	442102	10/50
4	442004	442104	10/50
6	442006	442106	10/50
8	442008	442108	10/50
10	442010	442110	10/50
12	442012	442112	10/50
16	442016	442116	10/50
20	442020	442120	10/50
25	442025	442125	10/50
32	442032	442132	10/50
40	442040	442140	10/50
50	442050	442150	10/50
63	442063	442163	10/50
80	442080	442180	10/50
100	442000	442100	10/50
125	442015	442115	10/50
433000			10/50



STANDARDS

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

DIMENSIONS POWER DISSIPATION

PAG 19

t-I | CUT-OFF | I²t CHARACTERISTICS

PAG 20

DC APPLICATIONS FOR CYLINDRICAL FUSE LINKS

PAG 41

COMPATIBLE PMF | BAC

PAG 10 ^{PMF}
PAG 15 ^{BAC}

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES

14x51

U **500V**

BREAKING CAPACITY **120kA**

U **400V**

BREAKING CAPACITY **120kA**

NEUTRAL LINK

In
(A)

REFERENCE

WITH
STRIKER



PACKING

Uni./BOX

1	441201	10/50
2	441202	10/50
4	441204	10/50
6	441206	10/50
8	441208	10/50
10	441210	10/50
12	441212	10/50
16	441216	10/50
20	441220	10/50
25	441225	10/50
32	441232	10/50
40	441240	10/50
45	441245	10/50
50	441250	10/50
	432000	10/50



22x58

U **690V**

BREAKING CAPACITY **80kA**

U **500V**

BREAKING CAPACITY **120kA**

OVERRATING FUSES

U **400V**

BREAKING CAPACITY **120kA**

NEUTRAL LINK

2	442202	10/50
4	442204	10/50
6	442206	10/50
8	442208	10/50
10	442210	10/50
12	442212	10/50
16	442216	10/50
20	442220	10/50
25	442225	10/50
32	442232	10/50
40	442240	10/50
50	442250	10/50
63	442263	10/50
80	442280	10/50
100	442200	10/50
125	442215	10/50
	433000	10/50



STANDARDS

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

DIMENSIONS POWER DISSIPATION

PAG 19

t-I | CUT-OFF | I²t CHARACTERISTICS

PAG 20

DC APPLICATIONS FOR CYLINDRICAL FUSE LINKS

PAG 41

COMPATIBLE PMX | BAC

PAG 10 ^{PMF}
PAG 15 ^{BAC}

PMX CYLINDRICAL fuse holders

PATENTED DESIGN

- Available in a extended range of different versions with fuse indicator, with microswitch, 690V, 24 V DC, Microswitch FUSING + PRE-BREAKING + FUSE LINK DETECTION.
- Accessory available to lock the fuse holder by a padlock.
- IP20 Security accessory in terminal zones.
- For wires of section ≤10 mm².
- All the versions with label holder for a good circuit identification.
- Compact design.
- Accessories for multiple poles assembly for fuse holders and microswitch.
- Ventilation zones optimized for a better heat dissipation.
- 2 position DIN Rail fixation.
- Made of a polymer high performance with a fusion temperature more than 300 °C. This provides a safety margin against a possible overheating of the fuse, and when it exceeds the rated power acceptance of the fuse holder.
- The PMX fuse holder can be fixed/unfixed on DIN rail with the same screwing tools that the installer uses for cable terminal fixing, regardless the screw driver head is in form of slot or PZ2.
- PMX Fuse holder is made of halogen free plastic, prepared for future restrictions on these substances.
- IEC (CB) tested.

8x32

U 400V AC/DC

In 25A

POLES

MODULES

REFERENCE

WITHOUT INDICATOR

WITH INDICATOR

PACKING

Uni /BOX

I	1	485001	485008	12/180
I + N	2	485003	485009	6/90
2	2	485004	485010	6/90
3	3	485005	485011	4/60
3 + N	4	485006	485012	3/45
4	4	485007	485013	3/45



10x38

U 690V AC
750V DC

In 32A

STANDARDS
cULus
UL
CSA

U 24V DC

In 32A

I	1	485101 cULus	485108 cULus	12/180
N	1	485102 cULus	—	12/180
I + N	1	485120	—	12/180
I + N	2	485103 cULus	485109 cULus	6/90
2	2	485104 cULus	485110 cULus	6/90
3	3	485105 cULus	485111 cULus	4/60
3 + N	3	485121	—	4/60
3 + N	4	485106 cULus	485112 cULus	3/45
4	4	485107 cULus	485113 cULus	3/45
I	1	—	485114 cULus	12/180
2	2	—	485116 cULus	6/90



8x32 10x38

ACCESSORIES

REFERENCE

DESCRIPTION

PACKING

Uni /BOX

480005	PIN FOR MULTIPOLE ASSEMBLY	12/300
485050	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300
485051	LOCK ACCESSORY	5
485052	SPECIAL IP20 PROTECTION ACCESSORY	24
485053	PHASE SEPARATOR ACCESSORY	12
485054	REPLACEMENT FUSING NEON INDICATOR 120/690V AC	6
485055	REPLACEMENT FUSING LED INDICATOR 24V DC	6
485656	SCREW PROTECTION ACCESSORY	20



480005



485050

STANDARDS

IEC/EN 60269-1 UL 4248-1
IEC/EN 60269-2
CSA C22.2 4248-1

TECHNICAL DATA

PAG 21

DIMENSIONS

PAG 24

ACCESSORIES

PAG 25

COMPATIBLE
gG | aM FUSE LINKS

PAG 04 gG
PAG 07 aM

14x51

U 690V

IN 50A

STANDARDS 

U 24V DC

IN 50A

MICROSWITCH

U 690V

IN 50A

STANDARDS 

POLES

MODULES

REFERENCE

WITHOUT
INDICATOR

WITH
INDICATOR

PACKING

Uni /BOX

I	1,5	485201		485208		6/90
N	1,5	485202		—		6/90
I + N	3	485203		485209		3/45
2	3	485204		485210		3/45
3	4,5	485205		485211		2/30
3 + N	6	485206		485212		1/18
4	6	485207		485213		1/18



POLES

MODULES

REFERENCE

PREBREAKING
FUSING - PRESENCE

ONLY FUSION

PACKING

Uni /BOX

I	1,5	485220		485226		6/90
I + N	3	485221		485227		3/45
2	3	485222		485228		3/45
3	4,5	485223		485229		2/30
3+N	6	485224		485230		1/18
4	6	485225		485231		1/18



14x51

ACCESSORIES

* to convert standard base on microswitch base only fusing and as microswitch PMX spare prebreaking-fusing-presence

REFERENCE

DESCRIPTION

PACKING

Uni /BOX

480005	PIN FOR MULTIPOLE ASSEMBLY	12/300
485356	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300
485357	HANDLE TIES FOR MICROSWITCH ASSEMBLY	12/300
485258	LOCK SUPPORT	5
485259	MICROSWITCH 1P *	5
485260	MICROSWITCH 3P *	2
485261	MICROSWITCH 3P (2M) *	2
485262	MICROSWITCH UNIPOLAR EXTENSION	5
485263	MICROSWITCH TRIPOLAR EXTENSION	2
485264	REPLACEMENT FUSING INDICATOR NEON 120/690 VAC	3
485265	REPLACEMENT FUSING INDICATOR LED 24 VDC	3
485266	SPECIAL PROTECTION IP20 ACCESSORY PMX-14	12
485271	SPECIAL CONNECTION M6 ACCESSORY	12
485656	SCREW PROTECTION ACCESSORY	20



480005



485258



485656

STANDARDS

IEC/EN 60269-1 UL 4248-1
IEC/EN 60269-2

TECHNICAL DATA

PAG 21

DIMENSIONS

PAG 27

ACCESSORIES

PAG 28

COMPATIBLE gG | aM FUSE LINKS

PAG 04 ^{gG}
PAG 07 ^{aM}



U 690V

IN 100A

STANDARDS 

U 24V DC

IN 100A

Accept 125A fuse links

MICROSWITCH

U 690V

IN 100A

STANDARDS 

Accept 125A fuse links

POLES

MODULES

REFERENCE

WITHOUT
INDICATOR

WITH
INDICATOR

PACKING

Uni /BOX

I	2	485301 	485308 	6/48
N	2	485302 	—	6/48
I + N	4	485303 	485309 	3/24
2	4	485304 	485310 	3/24
3	6	485305 	485311 	2/16
3 + N	8	485306 	485312 	1/12
4	8	485307 	485313 	1/12
1	2	—	485314 	6/48
1+N	4	—	485315 	3/24
2	4	—	485316 	3/24



POLES

MODULES

REFERENCE

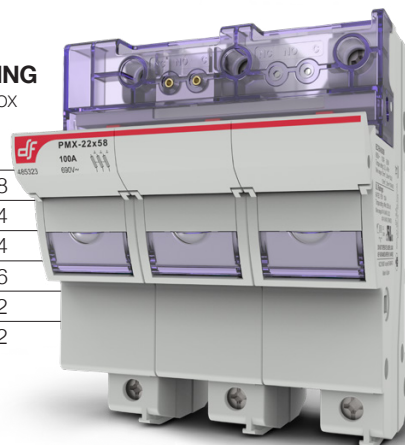
PREBREAKING
FUSING - PRESENCE

ONLY FUSION

PACKING

Uni /BOX

I	2	485320 	485326 	6/48
I + N	4	485321 	485327 	3/24
2	4	485322 	485328 	3/24
3	6	485323 	485329 	2/16
3+N	8	485324 	485330 	1/12
4	8	485325 	485331 	1/12



ACCESSORIES

* to convert standard base on microswitch base only fusing and as microswitch PMX spare prebreaking-fusing-presence

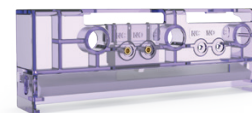
REFERENCE

DESCRIPTION

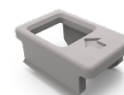
PACKING

Uni /BOX

480005	PIN FOR MULTIPOLE ASSEMBLY	12/300
485356	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300
485357	HANDLE TIES FOR MICROSWITCH ASSEMBLY	12/300
485358	LOCK SUPPORT	5
485359	MICROSWITCH 1P *	5
485360	MICROSWITCH 3P *	2
485361	MICROSWITCH 3P (2M) *	2
485362	MICROSWITCH UNIPOLAR EXTENSION	5
485363	MICROSWITCH TRIPOLAR EXTENSION	2
485364	REPLACEMENT FUSING INDICATOR NEON 120/690 VAC	3
485365	REPLACEMENT FUSING INDICATOR LED 24 VDC	3
485366	SPECIAL PROTECTION IP20 ACCESSORIE PMX-22	12
485367	SPECIAL CONNECTION M8 ACCESSORY	12
485371	SCREW PROTECTION ACCESSORY	20



485360



485367

STANDARDS

IEC/EN 60269-1 UL 4248-1
IEC/EN 60269-2

TECHNICAL DATA

PAG 21

DIMENSIONS

PAG 29

ACCESSORIES

PAG 30

COMPATIBLE gG | aM FUSE LINKS

PAG 04 ^{gG}
PAG 07 ^{aM}

PMC CYLINDRICAL 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.

**PATENTED
DESIGN**

8x32

U **400V**
In **25A**

POLES	MODULES	REFERENCE	PACKING Uni /BOX
I	1	483500	12/336
N	1	483502	12/336
I + N	1	483504	12/336
I + N	2	483506	6/168
2	2	483508	6/168
3	3	483510	4/112
3 + N	3	483512	4/112
3 + N	4	483514	3/84
4	4	483516	3/84



10x38

U **500V**
In **32A**

I	1	483530	12/336
N	1	483502	12/336
I + N	1	483534	12/336
I + N	2	483536	6/168
2	2	483538	6/168
3	3	483540	4/112
3 + N	3	483542	4/112
3 + N	4	483544	3/84
4	4	483546	3/84



8x32 10x38

ACCESSORIES

REFERENCE	DESCRIPTION	PACKING Uni /BOX
480005	PINS FOR MULTIPOLE ASSEMBLY	12/300
483550	PMC HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300
483552	PMC MULTIPOLE ASSEMBLY KIT	10/500



480005

STANDARDS

IEC/EN 60269-1
IEC/EN 60269-2

TECHNICAL DATA

PAG 22

DIMENSIONS

PAG 33

ACCESSORIES

PAG 33

COMPATIBLE gG | aM FUSE LINKS

PAG 04 ^{gG}
PAG 07 ^{aM}

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES



PMX CC CLASS CYLINDRICAL 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.



U 600V

In 30A

STANDARDS  

POLES

REFERENCE

PACKING

WITHOUT
INDICATOR

WITH
INDICATOR

Uni /BOX

I	485181  	485188  	12/180
II	485184  	485190  	6/90
III	485185  	485191  	4/60



ACCESSORIES

REFERENCE

DESCRIPTION

PACKING

Uni /BOX

480005	PIN FOR MULTIPOLE ASSEMBLY	12/300
485050	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12/300



480005



485050

STANDARDS

IEC/EN 60269-1 UL 4248-1
IEC/EN 60269-2 UL 4248-4
CSA C22.2 4248-4

TECHNICAL DATA

PAG 22

DIMENSIONS

PAG 34

ACCESSORIES

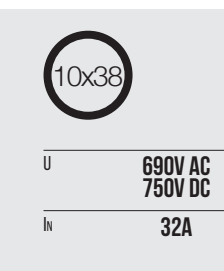
PAG 35

BAC | OPEN TYPE CYLINDRICAL fuse bases

Industrial OPEN TYPE fuse bases for industrial cylindrical fuse links. Specially suitable for semiconductor protection fuselinks that have a high dissipated power and need to be mounted on open fuseholders to facilitate the dissipation of heat.

Manufactured with a high quality materials. Silver plated copper contacts. Plastic materials with high temperature resistance and self-extinguishable. All the materials are according to the European Directive RoHS (Restriction of the use of certain hazardous substances in electrical material).

For DIN rail mounting or with screw fixing. Easy terminal connection. Microswitch accessory for fuses with striker to monitor the fusion. Manufactured according to IEC, EN standards.



REFERENCE

DESCRIPTION

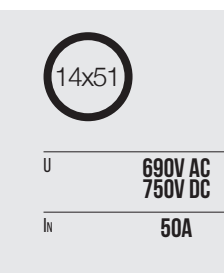
PACKING

Uni /BOX

451250

10x38 BAC FUSE BASE 1 POLE

6/120



451260

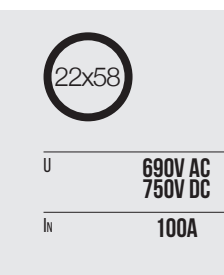
14x51 BAC FUSE BASE 1 POLE

6/120

451261

14x51 BAC FUSE BASE 1 POLE WITH MICROSWITCH

6/120



451270

22x58 BAC FUSE BASE 1 POLE

6/72

451271

22x58 BAC FUSE BASE 1 POLE WITH MICROSWITCH

6/72



451275

MICROSWITCH ACCESSORY FOR BAC-14/22

6



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-2

TECHNICAL DATA

PAG 23

DIMENSIONS

PAG 37

MOUNTING ON RAIL

PAG 38

MICROSWITCH ACCESSORY

PAG 39

COMPATIBLE gG | aM FUSE LINKS

PAG 04 ^{gG}
PAG 07 ^{aM}

COMPATIBLE RAPIDPLUS®

CYLINDRICAL
HIGH SPEED FUSE LINKS
FOR SEMICONDUCTORS



CLIP CONTACT CYLINDRICAL Ø10 fuse links

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 RoHS (Restriction of the use of certain hazardous substances in electrical material).

10x38

FIXATION

SCREW

U

UP TO 1500V AC/DC

In

25A

P _d max (W)	REFERENCE	PACKING Uni /BOX
4	482001	50/200



10x38

FIXATION

PCB

U

UP TO 1500V AC/DC

In

25A

4	482002	50/200
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STANDARDS

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

DIMENSIONS

PAG 40

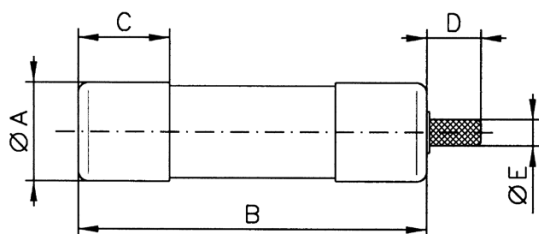
COMPATIBLE gG FUSE LINKS

PAG 04

gG CYLINDRICAL fuse links



DIMENSIONS



	A	B	C	D	E
8x32	8,5	31,5	6,3	—	—
10x38	10,3	38	8,5	—	—
14x51	14,3	51	11,5	8	3,7
22x58	22,2	58	15,5	8	3,7

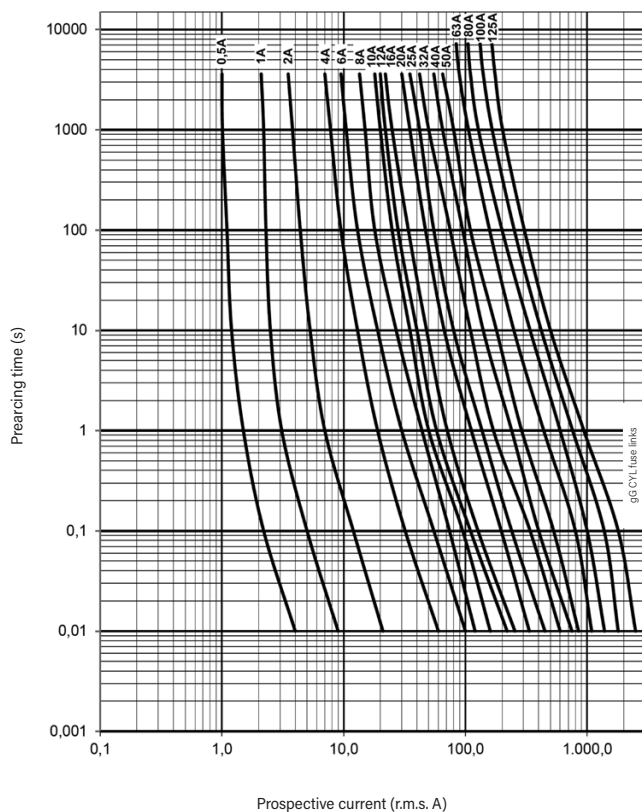
TECHNICAL DATA

	RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
8x32	400V	0,5A...20A	20kA
10x38	500V 400V	0,5A...25A 32A	120kA 120kA
14x51	690V 500V 400V	1A...25A 32A 40A 50A	80kA 120kA 120kA
22x58	690V 500V	2A...63A 80A 125A	80kA 120kA

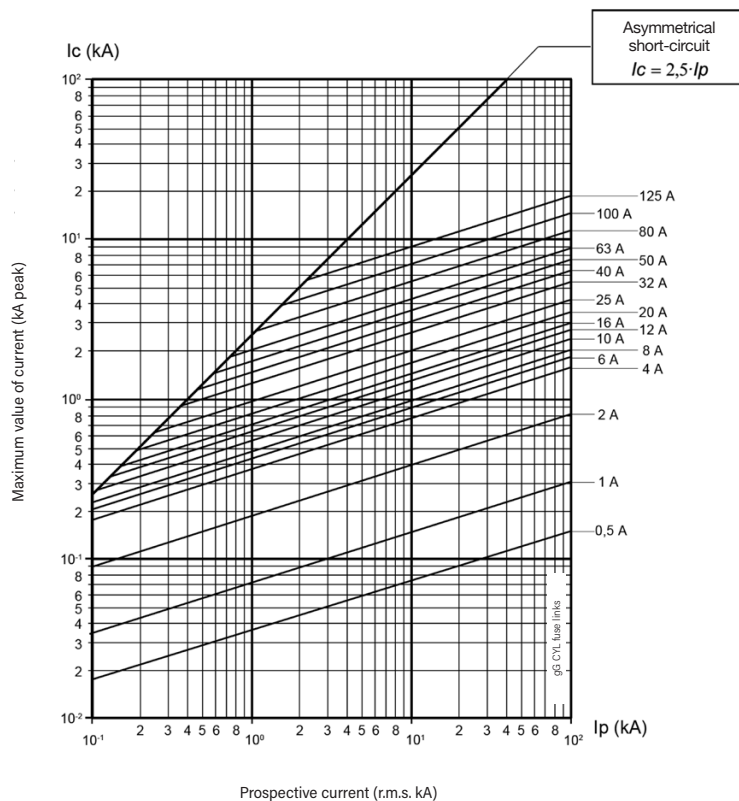
POWER DISSIPATION

RATED CURRENT	8x32	10x38	14x51	22x58
(A)	(W)	(W)	(W)	(W)
0,5	1,2	1,43	—	—
1	2,0	2,77	3,90	—
2	0,5	0,60	0,80	0,90
4	0,8	0,70	0,90	1,10
6	1,1	0,80	1,05	1,30
8	1,3	0,85	1,10	1,90
10	1,0	1,00	1,30	1,50
12	1,2	1,30	1,50	1,80
16	1,5	1,90	2,50	3,00
20	2,0	2,00	2,60	3,10
25	—	2,50	3,30	3,30
32	—	2,90	4,00	4,30
40	—	—	4,75	4,40
50	—	—	4,80	5,50
63	—	—	—	4,95
80	—	—	—	7,00
100	—	—	—	7,95
125	—	—	—	10,0

t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



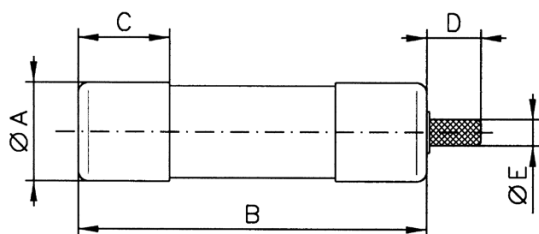
I²t CHARACTERISTICS

RATED CURRENT (A)	PREARcing I ² t (A ² s)	I ² t 400V (A ² s)	I ² t 500V (A ² s)	I ² t 690V (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	10.000	22.011	26.811	39.000
80	15.000	45.471	60.000	—
100	39.800	77.229	91.150	—
125	56.000	120.074	145.300	—

aM | gG CYLINDRICAL fuse links



DIMENSIONS



	A	B	C	D	E
8x32	8,5	31,5	6,3	—	—
10x38	10,3	38	8,5	—	—
14x51	14,3	51	11,5	8	3,7
22x58	22,2	58	15,5	8	3,7

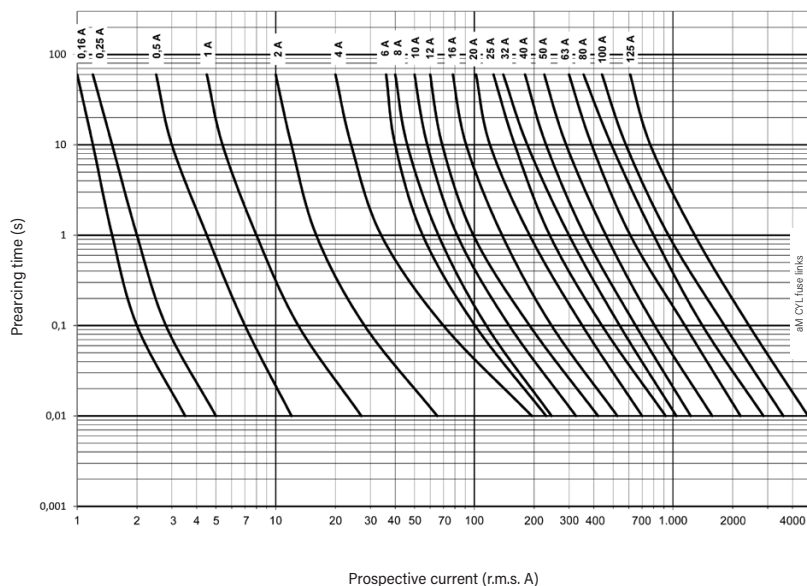
TECHNICAL DATA

	RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
8x32	400V	1A...10A	20kA
10x38	500V 400V	0,16A...16A 20A...32A	120kA 120kA
14x51	690V 500V 400V	1A...25A 32A...45A 50A	80kA 120kA 120kA
22x58	690V 500V 400V	2A...63A 80A 100A 125A	80kA 120kA 120kA

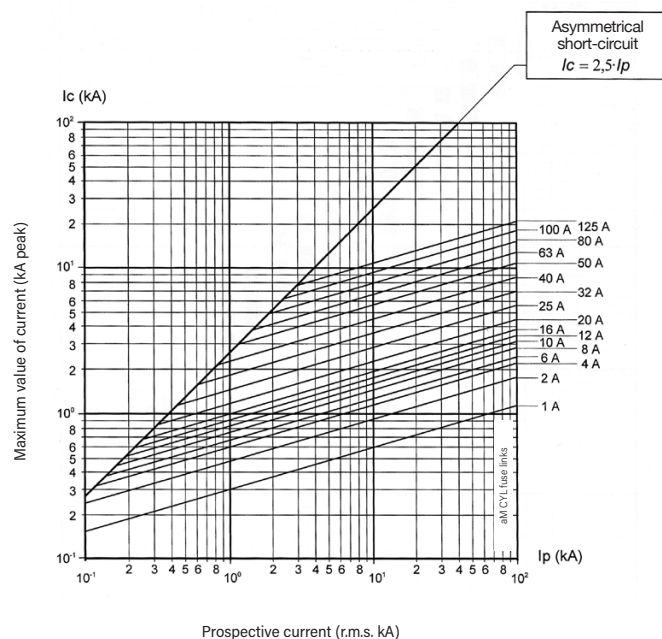
POWER DISSIPATION

RATED CURRENT	8x32	10x38	14x51	22x58
(A)	(W)	(W)	(W)	(W)
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	—	0,85	1,16	1,21
20	—	0,95	1,23	1,29
25	—	1,25	1,46	1,53
32	—	1,80	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

t-I CHARACTERISTICS



CUT-OFF CHARACTERISTICS



I²t CHARACTERISTICS

RATED CURRENT (A)	PREARcing I ² t (A ² s)	I ² t 400V (A ² s)	I ² t 500V (A ² s)	I ² t 690V (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	—	—

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES



PMX 8x32

PMX 10x38

PMX 14x51

PMX 22x58

RATED CURRENT		25 A	32 A	50 A	100 A
RATED VOLTAGE		400 V	690 V AC 750 V DC	690 V	690 V
RATED POWER DISSIPATION		2,5 W	3 W	5 W	9,5 W
UTILIZATION CATEGORY		AC-22B 400 V	AC-22B 500 V AC-21B 690 V DC-20B 750 V DC	AC-22B 500 V AC-21B 690 V	AC-21B 690 V
PROTECTION DEGREE		IP-20	IP-20	IP-20	IP-20
OPERATING TEMPERATURE		-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)	-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)	-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)	-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)
STORAGE TEMPERATURE		-50 ... 80 °C	-50 ... 80 °C	-50 ... 80 °C	-50 ... 80 °C
DERATING TEMPERATURE	20 °C	1	1	1	1
	30 °C	0,95	0,95	0,95	0,95
	40 °C	0,9	0,9	0,9	0,9
	50 °C	0,8	0,8	0,8	0,8
	60 °C	0,7	0,7	0,7	0,7
	70 °C	0,6	0,6	0,6	0,6
DERATING N° OF POLES	1 ... 4	1	1	1	1
	5 ... 6	0,8	0,8	0,8	0,8
	7 ... 9	0,7	0,7	0,7	0,7
	≥ 10	0,6	0,6	0,6	0,6
FIXING	RAIL DIN / EN	•	•	•	•
	SCREW	–	–	–	–
CONNECTING WIRE		0,75...16 mm ² STRANDED	0,75...16 mm ² STRANDED	1,5...25 mm ² STRANDED	1,5...35 mm ² STRANDED
		0,75...16 mm ² SOLID	0,75...16 mm ² SOLID	1,5...35 mm ² SOLID	1,5...50 mm ² SOLID
WITH LIGHTNING INDICATOR		120...400V AC	120...690V AC 12...24V DC	230...690V AC 24...60 VDC	230...690V AC 24...60 VDC
MAX. TIGHTENING TORQUE		2,5 Nm	2,5 Nm	3 Nm	4 Nm
WITH MICROSWITCH 5A-250V	FUSING	–	–	•	•
	PREBREAKING PRESENCE FUSING	–	–	•	•
MULTIPOLAR UNION WITH ACCESSORIES		•	•	•	•
LABEL HOLDER		•	•	•	•
LOCKING ACCESSORIES		•	•	•	•
CERTIFICATIONS					

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES



RATED CURRENT		25 A	32 A	30 A
RATED VOLTAGE		400 V	690 V	600 V
RATED POWER DISSIPATION		3 W	3 W	3 W
UTILIZATION CATEGORY		AC-20	AC-20	—
PROTECTION DEGREE		IP-20	IP-20	IP-20
OPERATING TEMPERATURE		-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)	-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)	-40°C ... 70°C (with carrier operation) -50°C ... 80°C (without carrier operation)
STORAGE TEMPERATURE		-50 ... 80 °C	-50 ... 80 °C	-50 ... 80 °C
DERATING TEMPERATURE	20 °C	1	1	1
	30 °C	0,95	0,95	0,95
	40 °C	0,9	0,9	0,9
	50 °C	0,8	0,8	0,8
	60 °C	0,7	0,7	0,7
	70 °C	0,6	0,6	0,6
DERATING N° OF POLES	1 ... 4	1	1	1
	5 ... 6	0,8	0,8	0,8
	7 ... 9	0,7	0,7	0,7
	≥ 10	0,6	0,6	0,6
FIXING	RAIL DIN / EN	•	•	•
	SCREW	—	—	—
CONNECTING WIRE		0,75...6 mm ² STRANDED 0,75...10 mm ² SOLID	0,75...6 mm ² STRANDED 0,75...10 mm ² SOLID	0,75...16 mm ² STRANDED 0,75...16 mm ² SOLID
WITH LIGHTNING INDICATOR		—	—	120...690V AC 12...24V DC
MAX. TIGHTENING TORQUE		2 Nm	2 Nm	2,5 Nm
WITH MICROSWITCH 5A-250V	FUSING	—	—	•
	PREBREAKING PRESENCE FUSING	—	—	•
MULTIPOLAR UNION WITH ACCESSORIES		•	•	•
LABEL HOLDER		—	—	•
LOCKING ACCESSORIES		—	—	•
CERTIFICATIONS				UL SF

BAC OPEN TYPE CYLINDRICAL fuse bases



BAC 10x38



BAC 14x51



BAC 22x58

RATED CURRENT		32 A	50 A	100 A
RATED VOLTAGE		690 V	690 V	690 V
RATED POWER DISSIPATION		8 W	11 W	18 W
RATED INSULATION VOLTAGE		6kV	6kV	6kV
PROTECTION INDEX		IP-00	IP-00	IP-00
OPERATING TEMPERATURE		-20 ... 70 °C	-20 ... 70 °C	-20 ... 70 °C
STORAGE TEMPERATURE		-40 ... 80 °C	-40 ... 80 °C	-40 ... 80 °C
DERATING TEMPERATURE	20 °C	1	1	1
	30 °C	0,95	0,95	0,95
	40 °C	0,9	0,9	0,9
	50 °C	0,8	0,8	0,8
	60 °C	0,7	0,7	0,7
	70 °C	0,6	0,6	0,6
FIXING	RAIL DIN / EN	•	•	•
	SCREW	•	•	•
CONNECTING WIRE		0,75...16 mm ² STRANDED	1,5...25 mm ² STRANDED	1,5...35 mm ² STRANDED
		0,75...25 mm ² SOLID	1,5...35 mm ² SOLID	1,5...50 mm ² SOLID
MAX. TIGHTENING TORQUE		3 Nm	3 Nm	4 Nm
MICROSWITCH ONLY FUSING		•	•	•

CYLINDRICAL

FUSE LINKS & FUSE HOLDERS/BASES

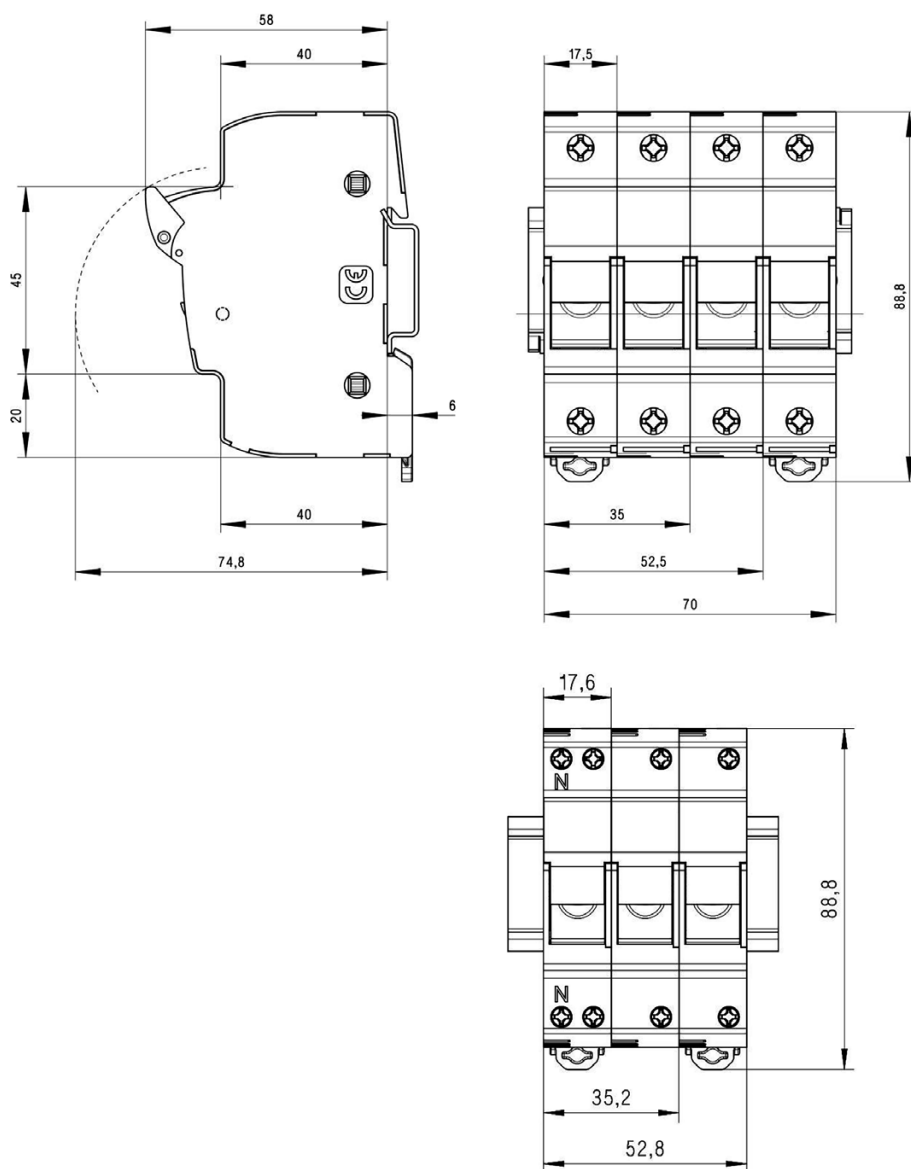


PMX CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
400V	25A	IP20
690V AC 750V DC	32A	
24V DC	32A	



DIMENSIONS

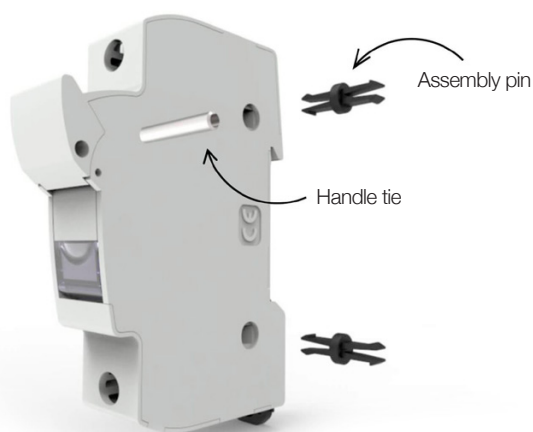




PMX CYLINDRICAL fuse holders ACCESSORIES

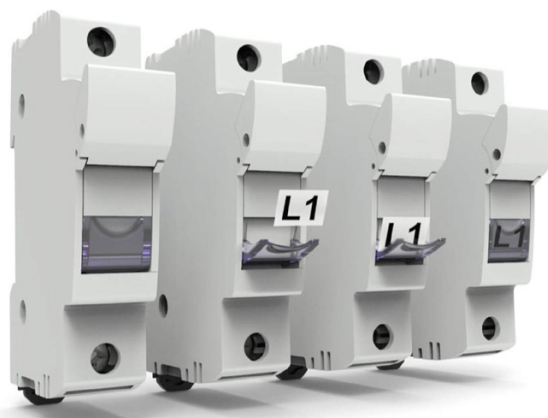
MULTIPOLAR ASSEMBLY

Standard system by DF, 2 clips and 1 pin for each union between poles



IDENTIFICATION BY LABEL

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

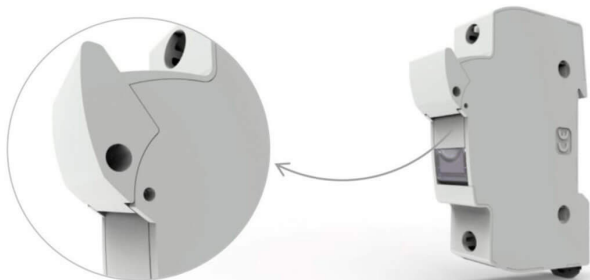


LOCKING MEANS A PADLOCK

Systems to avoid the operation and connection when the fuse holder is open or closed

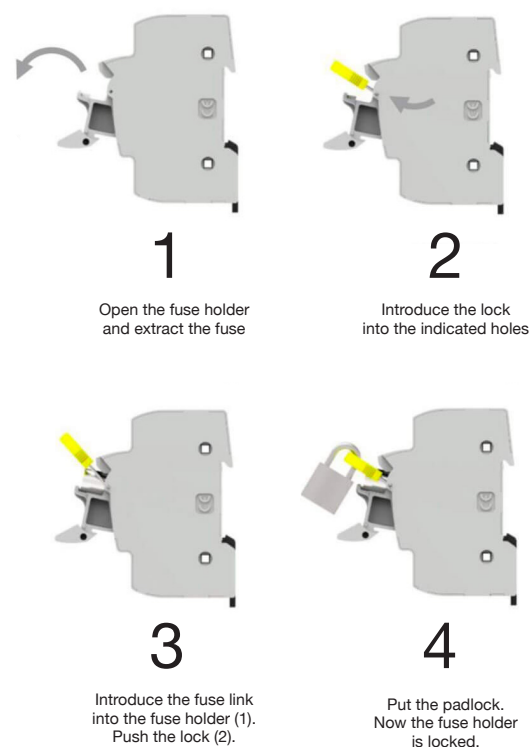
CLOSED FUSE HOLDER

PMX bases allow to be sealed by a wire



OPEN FUSE HOLDER

PMX lock accessory prevents the unauthorized use of the fuse holder

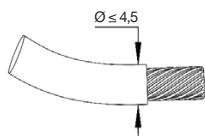




PMX CILINDRICOS portafusibles ACCESORIOS

SPECIAL IP20 PROTECTION

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



To obtain an IP20 rating with cable protection of $\varnothing \leq 4.5\text{mm}$, use the **special protection accessory**

SCREW'S PROTECTION ACCESSORY

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

Manual assembly



PHASE SEPARATOR

The accessory increases the distance between phases in multipolar assemblies

Manual assembly





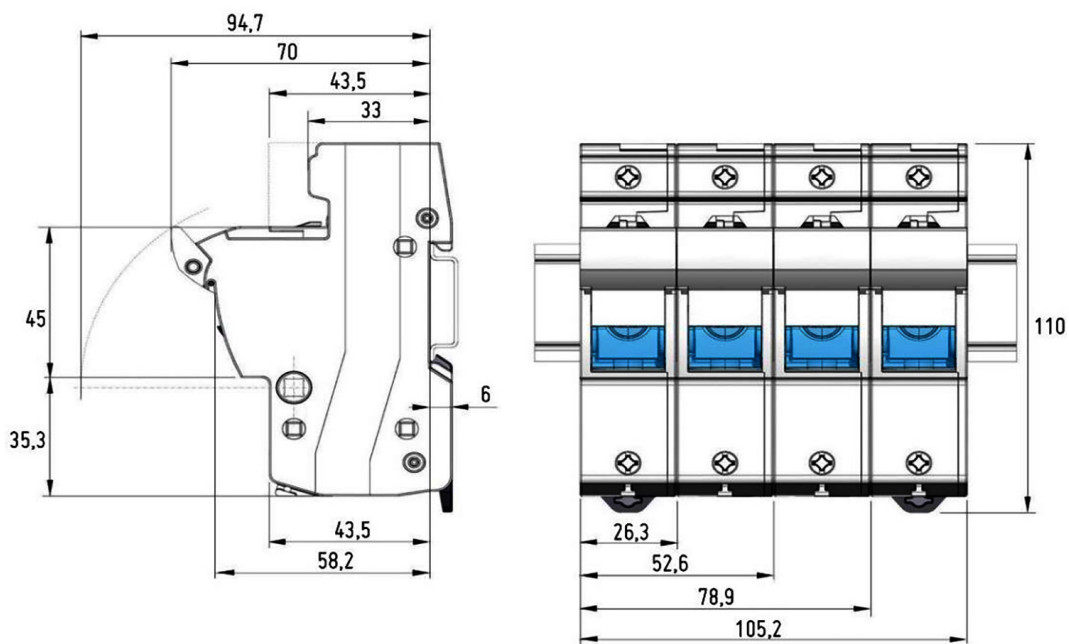
PMX CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
690V AC 24V DC	50A	IP20



**PATENTED
DESIGN**

DIMENSIONS

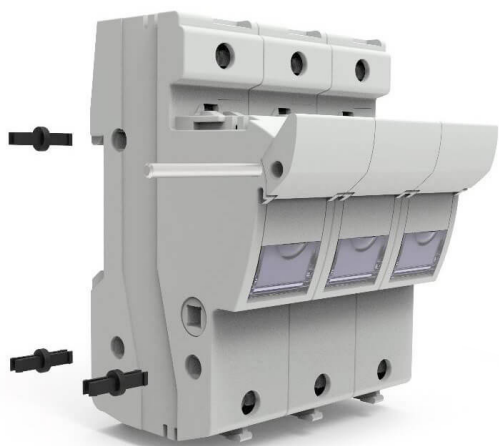




PMX CYLINDRICAL fuse holders ACCESSORIES

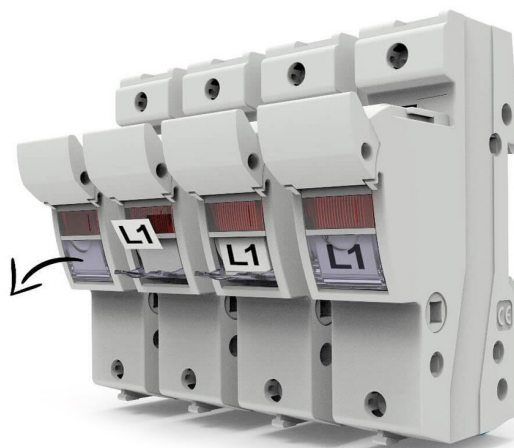
MULTIPOLAR ASSEMBLY

Standard system by DF, 3 clips and 1 pin for each union between poles



IDENTIFICATION BY LABEL

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



LOCKING MEANS A PADLOCK

To avoid the operation and connection when the fuse holder is open, put on the accessory "Padlock support" sliding it for the guides, and covering the fuse link zone.
(It's possible the use with or without fuse link)

Introduce the padlock trough the symmetrical holes and close it.

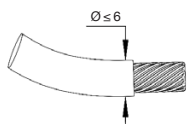




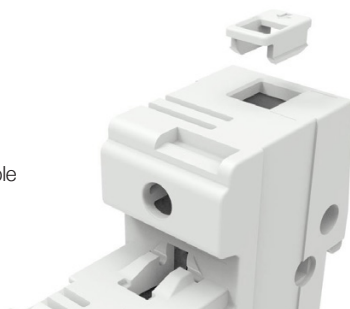
PMX CYLINDRICAL fuse holders ACCESSORIES

SPECIAL IP20 PROTECTION

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



To obtain an IP20 rating with cable protection of $\varnothing \leq 6\text{mm}$, use the special protection accessory

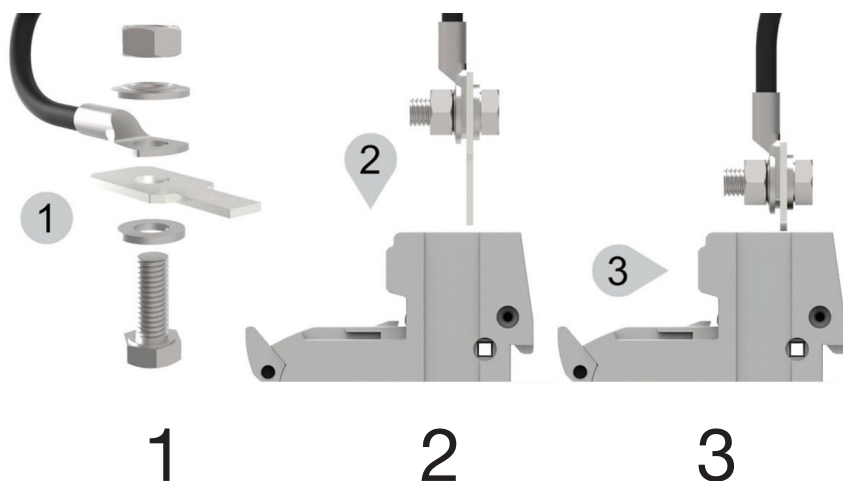


SCREW'S PROTECTION ACCESSORY

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



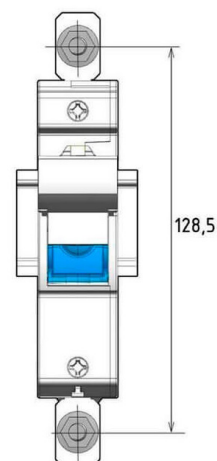
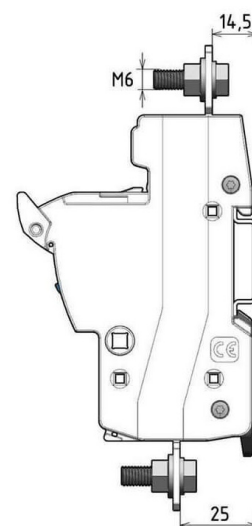
PMX-14 SPECIAL ACCESSORY SCREW CONNECTION



1 Mount the accessory in the wire (6Nm)

2 Wiring in the fuse holder

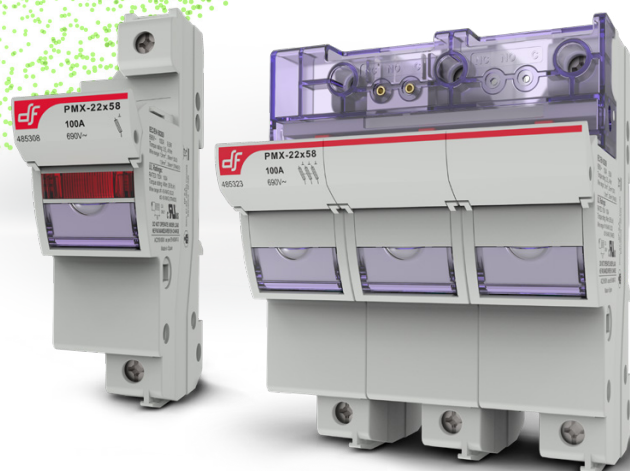
3 Apply tightening torque (2,5...3 Nm)





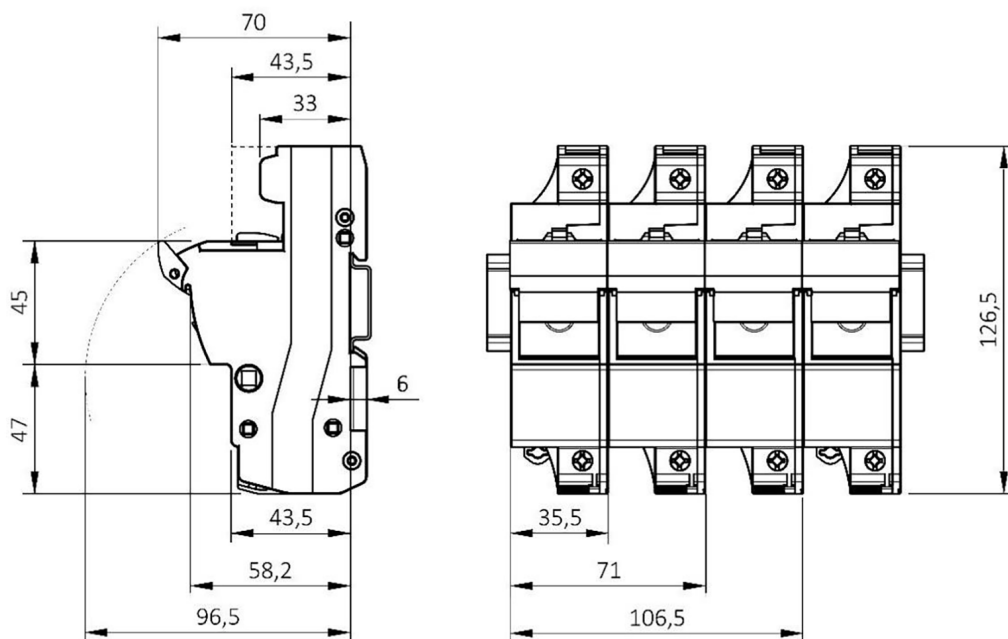
PMX CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
690V AC 24V DC	100A	IP20



**PATENTED
DESIGN**

DIMENSIONS

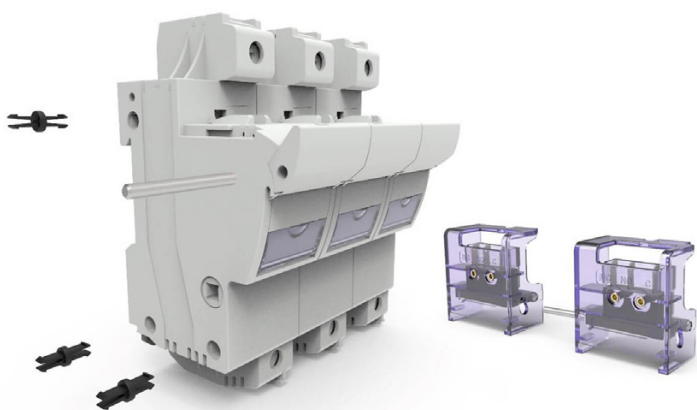




PMX CYLINDRICAL fuse holders ACCESSORIES

MULTIPOLAR ASSEMBLY

Standard system by DF, 3 clips and 1 pin for each union between poles



IDENTIFICATION BY LABEL

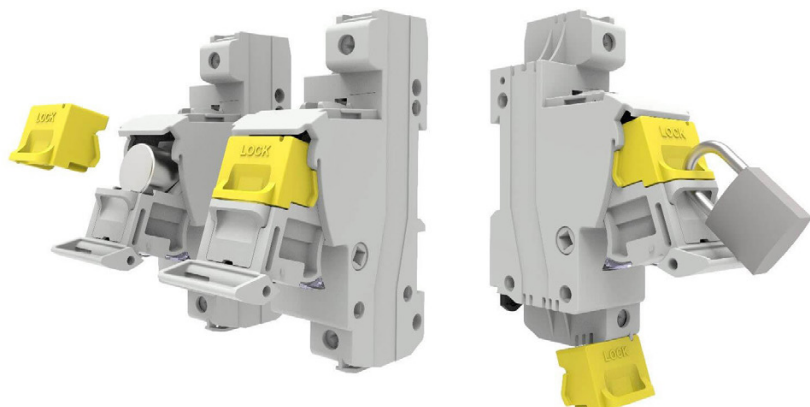
Open the label-holder part when the fuse holder is totally closed or totally open, put on the label and close



LOCKING MEANS A PADLOCK

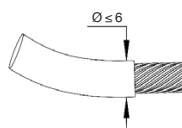
To avoid the operation and connection when the fuse holder is open, put on the accessory "Padlock support" sliding it for the guides, and covering the fuse link zone.
(It's possible the use with or without fuse link)

Introduce the padlock trough the symmetrical holes and close it.



SPECIAL IP20 PROTECTION

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



To obtain an IP20 rating with cable protection of $\varnothing \leq 6\text{mm}$, use the special protection accessory





PMX CYLINDRICAL fuse holders ACCESSORIES

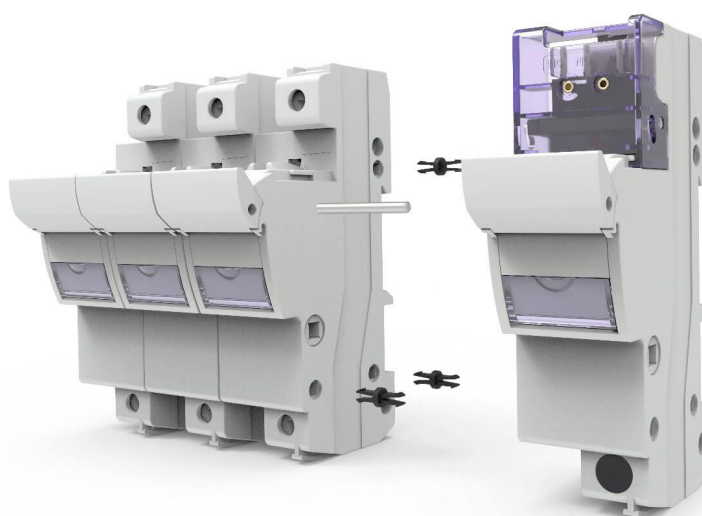
SCREWS PROTECTION ACCESSORY

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

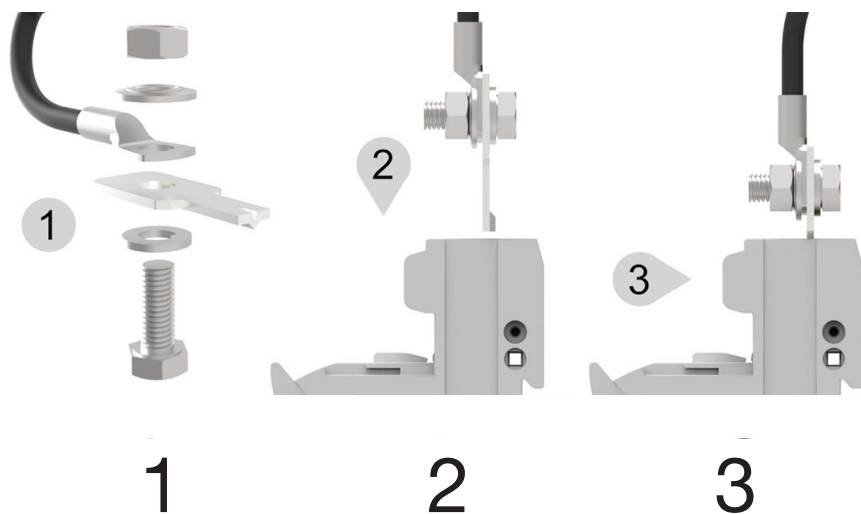


PRE-BREAKING MODULE

Accessory module which attached to any other fuse holder of its range, offers an extra pre-breaking signal. Assembly kit is included in the product



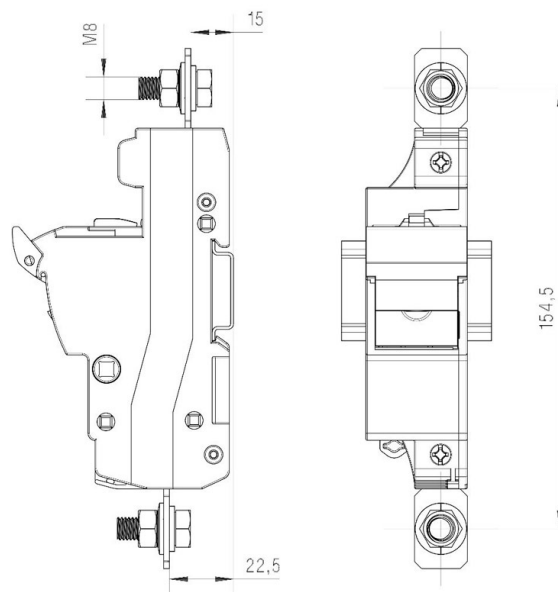
PMX-22 SPECIAL SCREW CONNECTION ACCESSORY



1
Mount the accessory
in the wire (6Nm)

2
Wiring in the fuse holder

3
Apply tightening torque
(2,5...3 Nm)



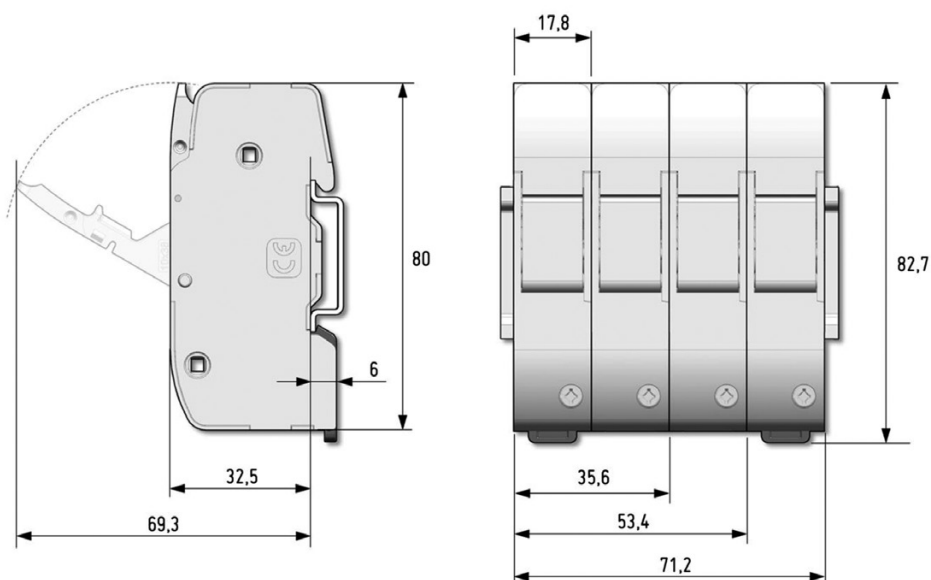
PMC CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
400V	25A	IP20
500V	32A	



DIMENSIONS

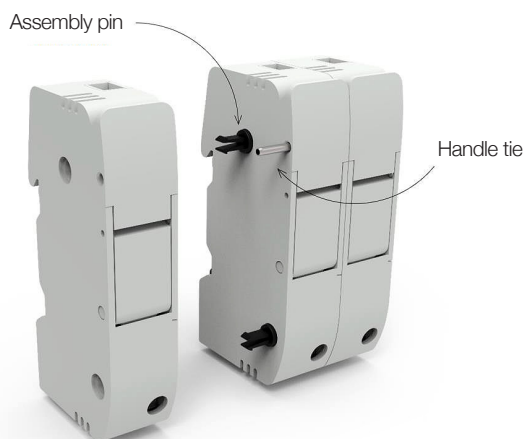
**PATENTED
DESIGN**



ACCESSORIES

MULTIPOLAR ASSEMBLY

Standard system by DF, 3 clips and 1 pin for each union between poles



PMX CC CLASS

CYLINDRICAL

fuse holders

PROTECTION INDEX
IP20



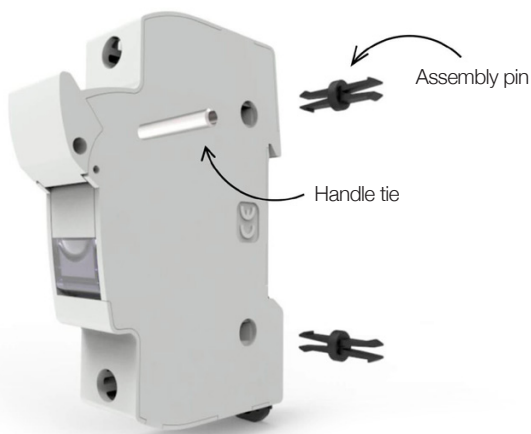


PMX CC CLASS CYLINDRICAL fuse holders

ACCESSORIES

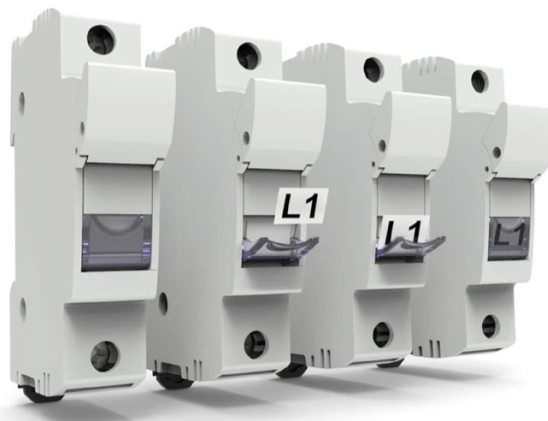
MULTIPOLAR ASSEMBLY

Standard system by DF, 2 clips and 1 pin for each union between poles



IDENTIFICATION BY LABEL

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

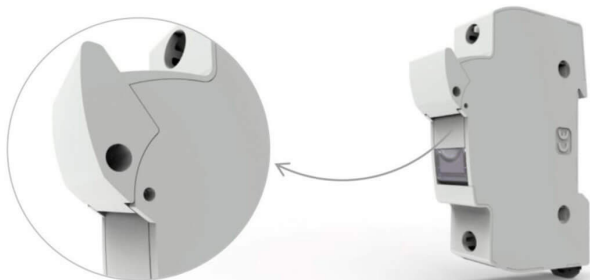


LOCKING MEANS A PADLOCK

Systems to avoid the operation and connection when the fuse holder is open or closed

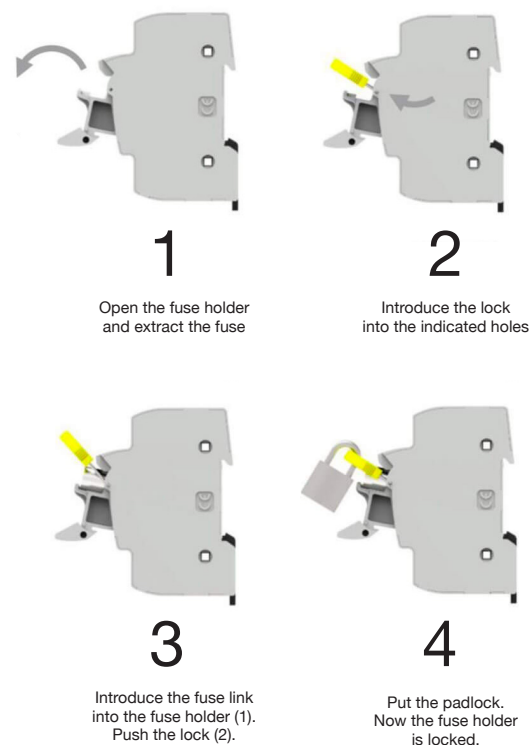
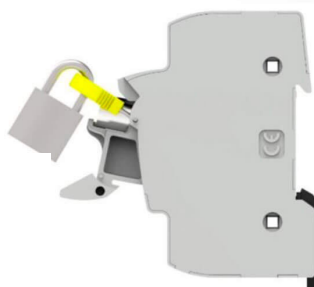
CLOSED FUSE HOLDER

PMX bases allow to be sealed by a wire



OPEN FUSE HOLDER

PMX lock accessory prevents the unauthorized use of the fuse holder



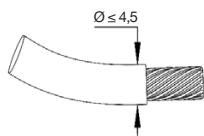


PMX CC CLASS
CYLINDRICAL
fuse holders

ACCESSORIES

SPECIAL IP20 PROTECTION

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



To obtain an IP20 rating with cable protection of $\varnothing \leq 4.5\text{mm}$, use the **special protection accessory**

SCREW'S PROTECTION ACCESSORY

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

Manual assembly



PHASE SEPARATOR

The accessory increases the distance between phases in multipolar assemblies

Manual assembly

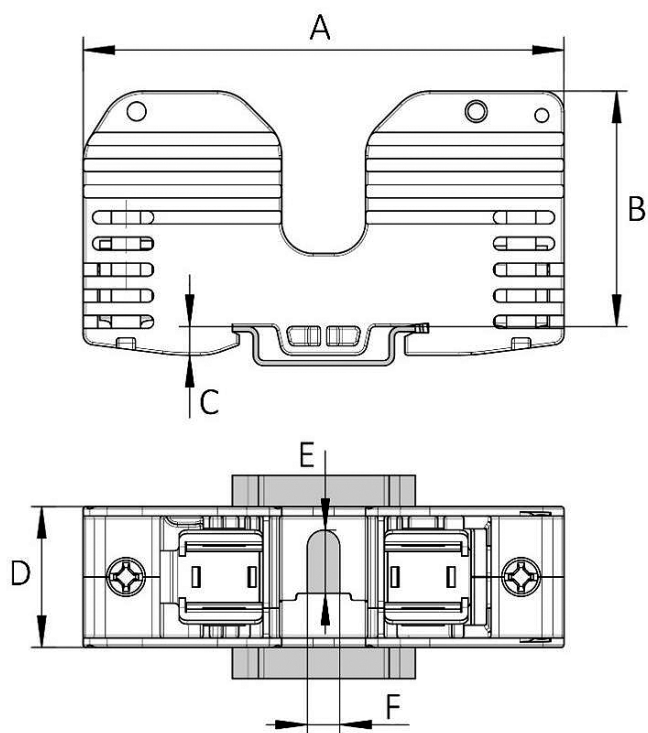


BAC OPEN TYPE CYLINDRICAL fuse bases

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
690V AC	32A	IP00
750V DC	50A	
	100A	

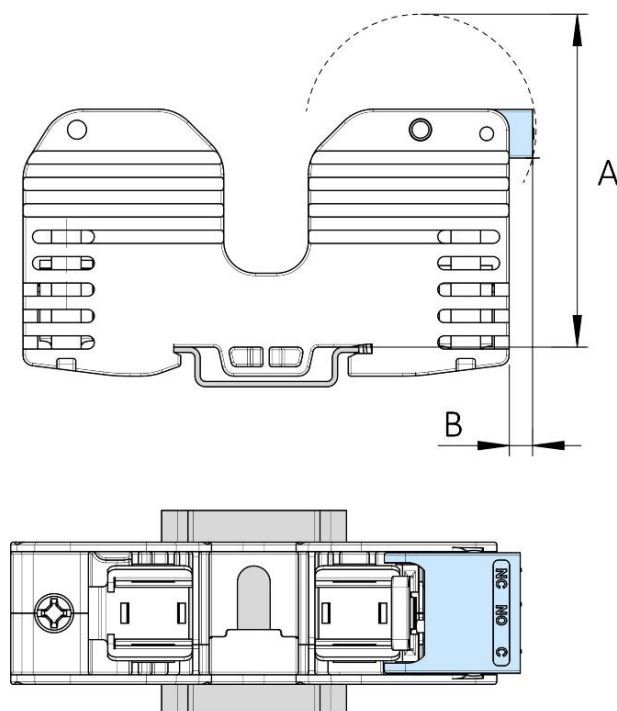


DIMENSIONS



	A	B	C	D	E	F
10x38	75	32,5	5,5	22	9	4,5
14x51	92	45	5,5	26,9	12	6,2
22x58	118	52	5,5	35,5	15	6,2

DIMENSIONS (WITH MICROSWITCH)

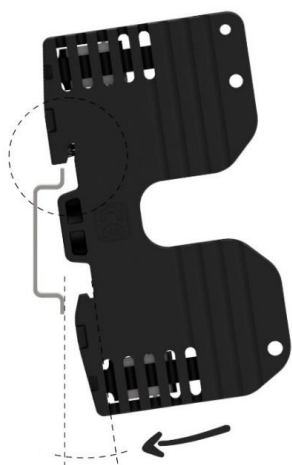


	A	B
14x51	63	4,4
22x58	70	0

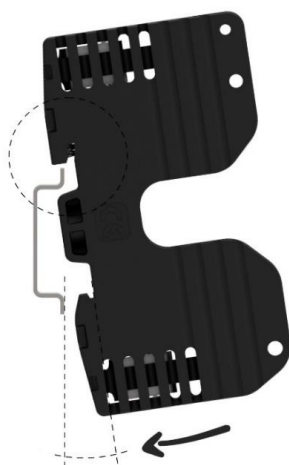
BAC | **OPEN TYPE**
CYLINDRICAL
fuse bases



MOUNTING ON RAIL



Insert the fuse holder on the DIN rail with a slight angle



Fixed at the top, press down slightly to fix the bottom



The base is mounted on the rail.
To disassemble, perform the same operations in reverse.



The clamping spring must be positioned at the top of the DIN rail

BAC | OPEN TYPE CYLINDRICAL fuse bases



MICROSWITCH ACCESSORY



Insert the swingarm into its base housing until it is clipped. Check that it is secure and can be tilted



Insert the micro housing in the indicated holes



Turn the microswitch assembly until it is clipped into the base



Check that the microswitch assembly is properly assembled. NC - NO - C must be in front



Insert the fuse link with striker as shown in the picture



The rotatory system of the microswitch allows easy access to the connection terminals

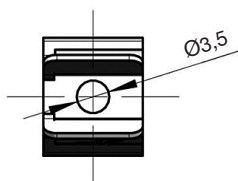
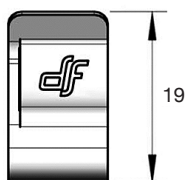
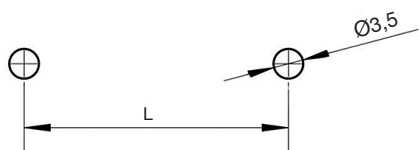


CLIP CONTACT CYLINDRICAL Ø10 fuse links

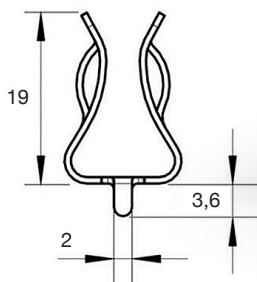
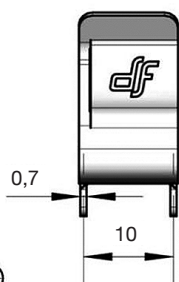
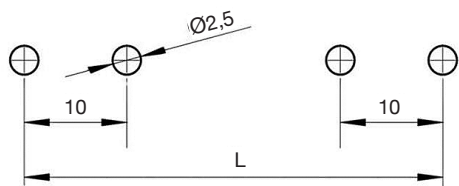
	RATED VOLTAGE	RATED CURRENT	RATED POWER DISSIPATION
UP TO	1500V AC/DC	25A	4W

DIMENSIONS

L
(mm)
10x38 32



L
(mm)
10x38 42





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 fuse links** 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*).

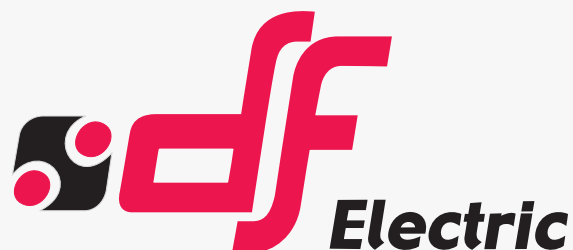
	RATED CURRENT	MAX. DC VOLTAGE	DC BREAKING CAPACITY
8,5x31,5	0,5A...10A 12A...20A	150V DC 60V DC	5 kA
10x38	0,5A...16A 20A...32A	250V DC 80V DC	15 kA
14x51	1A...25A 32A & 40A 50A	440V DC 150V DC 48V DC	15 kA
22x58	2A...63A 80A & 100A 125A	440V DC 150V DC 48V DC	15 kA

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.



PROTECTING THE WORLD

HEAD OFFICE AND FACTORY

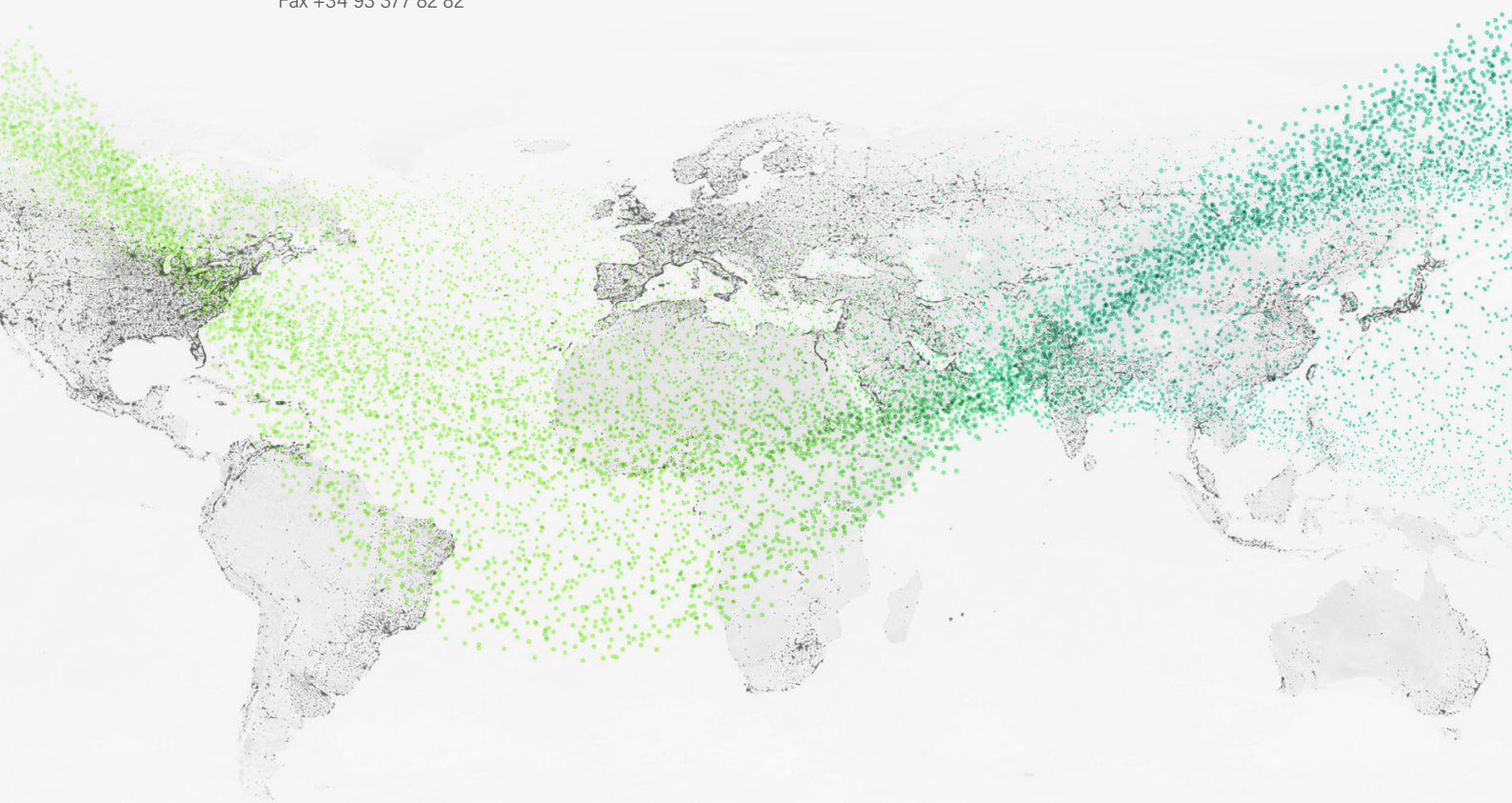
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According to the waste of electrical and electronic equipment directive, electrical material should not be part of the usual waste. This symbol alerts users that these products should be recycled according to local environmental waste disposal regulations.



The "electro technical expert" logo marked on the products included in this data sheet indicates that the installation of these products must be carried out by expert personnel with specialized knowledge.



To prevent electrical hazards, carry out the installation without voltage.



Safety notice
Please capture the following QR code and read our safety notice carefully before installing our products.



The data reflected in this technical record are subject to the correct installation of the product in accordance with manufacturer's instructions, relevant installation standards and professional practices, maintained and used in applications for which they were made.

The products described in this document have been designed, developed and tested in accordance with specific standard. They are considered components that are integrated as part of installation, machine or equipment. The correct general operation of the referred product is responsibility of the manufacturer of the installation, machine or equipment.

DF ELECTRIC cannot guarantee the characteristics of an installation, machine or equipment that has been designed by a third party. Once a product has been selected, the user must verify that it is appropriate for its application, through the verifications and/or tests that it deems appropriate.

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