

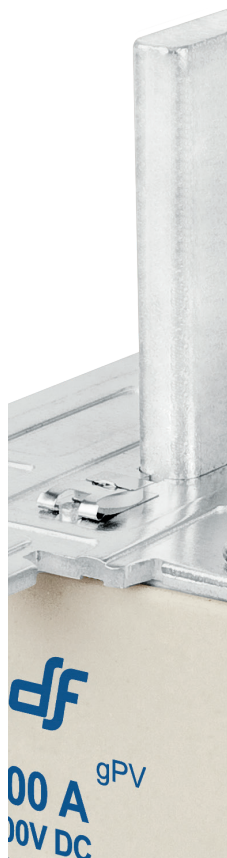


HORUS[®]
PHOTOVOLTAIC
PROTECTION



04

**gPV
CYL**
fuse links



06

**gPV
NH**
1000V DC
fuse links



08

**gPV
NH XL**
1500V DC
fuse links



10

**gG/GL & gS
NH**
800V AC
fuse links



11

**PMX
CYL**
fuse holders





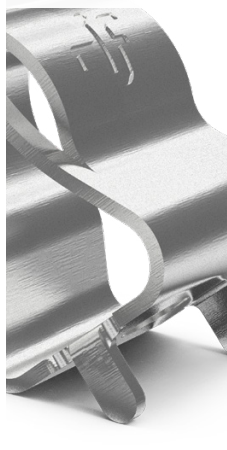
12

PMLe
CYL
fuse holders



13

**CLIP
CONTACT**
CYL
Ø10 fuse links



14

ST
NH
1000V DC
fuse bases



15

ST
NH XL
1500V DC
fuse bases



16

ST
NH
690/800V AC
fuse bases



gPV CYLINDRICAL fuse links

gPV 10x38 and 14x51 cylindrical fuse links have been developed to offer a compact, safety and economic protection of photovoltaic modules (array protection) with voltages up to 1.000/1.100V DC.

They provide protection against overloads as well as short-circuit (gPV class according to the requirements of IEC60269-6 and UL248-19 Standards).

Made with ceramic tube with high withstand to internal pressure and thermal shock, that allows a high breaking capacity in a reduced physical space. Contacts are made in silver plated copper and melting elements are made in pure silver in order to avoid the aging and thus keep unalterable the electric characteristics.

For these fuse-links we recommend the utilization of PMX fuse holders.

10x38

U 1000V DC

BREAKING CAPACITY 30kA

STANDARDS 

NEUTRAL LINK

I _n (A)	REFERENCE	PACKING Uni /BOX
1	491601	10/100
2	491602 	10/100
3	491604 	10/100
4	491605 	10/100
5	491606 	10/100
6	491610 	10/100
8	491615 	10/100
10	491620 	10/100
12	491625 	10/100
15	491629	10/100
16	491630	10/100
20	491635	10/100
	431000	10/100



491635



14x51

U 1100V DC

BREAKING CAPACITY 10kA

U 1000V DC

BREAKING CAPACITY 30kA

NEUTRAL LINK

15	491647	10/50
20	491648	10/50
25	491650	10/50
32	491655	10/50
	432000	10/50



491655

STANDARDS

IEC 60269-1
IEC 60269-6
UL 248-19

DIMENSIONS

PAG 18 
PAG 19 

t-I CHARACTERISTICS

PAG 18 
PAG 19 

AMBIENT TEMPERATURE DERATING FACTOR

PAG 49

COMPATIBLE PMX FUSE HOLDERS

PAG 11

COMPATIBLE CLIP CONTACT Ø 10 FUSE-LINKS

PAG 13

CYL | gPV CYLINDRICAL fuse links

gPV 10x85 & 10/14x85 cylindrical fuse-links have been developed to offer a compact, safety and economic protection of photovoltaic modules (array protection) with voltages up to 1.200/1.500 VDC.

They provide protection against overloads as well as short-circuit (gPV class according to the requirements of IEC60269-6 and UL248-19 Standards). Made with ceramic tube with high withstand to internal pressure and thermal shock, that allows a high breaking capacity in a reduced physical space. Contacts are made in silver plated copper and melting elements are made in pure silver in order to avoid the aging and thus keep unalterable the electric characteristics.

For these fuse-links we recommend the utilization of PML fuse holders.

10x85
U 1500V DC
BREAKING CAPACITY 30kA
STANDARDS 
U 1200V DC
BREAKING CAPACITY 10kA
NEUTRAL LINK

I_n (A)	REFERENCE	PACKING Uni /BOX
2	492202 	10/50/1000
4	492205 	10/50/1000
6	492210 	10/50/1000
8	492215 	10/50/1000
10	492220 	10/50/1000
12	492225 	10/50/1000
15	492229 	10/50/1000
16	492230 	10/50/1000
20	492235	10/50/1000
25	492240	10/50/1000
	431010	10/50/1000



492240

10/14x85
U 1500V DC
BREAKING CAPACITY 30kA

20	492250	10/480
25	492255	10/480
30	492260	10/480
32	492262	10/480



492262

22x65
U 1500V DC
BREAKING CAPACITY 30kA

40	492270	10/260
45	492272	10/260
50	492275	10/260
55	492278	10/260
60	492280	10/260



492280

STANDARDS

IEC 60269-1
IEC 60269-6
UL 248-19

DIMENSIONS

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PAG 21 
PAG 22 

t-I CHARACTERISTICS

PAG 20 
PAG 21 
PAG 22 

AMBIENT TEMPERATURE DERATING FACTOR

PAG 49

COMPATIBLE PML FUSE HOLDERS

PAG 12

COMPATIBLE CLIP CONTACT Ø10 FUSE-LINKS

PAG 13

NH | gPV NH 1000V DC fuse links

NH gPV fuse links for photovoltaic installations have been developed to offer a safety protection solution in sub-array, array or inverter DC input of photovoltaic installations.

They provide protection against overloads as well as short-circuits (gPV class according to IEC 60269 and UL248-19 Standards, with a minimum fusing current of 1,35·In. Made with ceramic body with high withstand to internal pressure and thermal shock. Contacts are made in silver plated copper or brass and melting elements are made in pure silver in order to avoid the aging and thus keep unalterable the electric characteristics.

For these fuse-links we recommend the utilization of 1000 VDC NH ST fuse bases.

NH1

U 1000V DC

BREAKING CAPACITY 30kA

CONTACTS KNIFE BLADE

STANDARDS 

In
(A)

REFERENCE

PACKING

Uni /BOX

25

373210 

1/30

32

373215 

1/30

40

373225 

1/30

50

373230 

1/30

63

373235 

1/30

80

373240 

1/30

100

373245 

1/30

125

373250 

1/30

160

373255

1/30

200

373260

1/30



373250

NH2

U 1000V DC

BREAKING CAPACITY 30kA

CONTACTS KNIFE BLADE

200

373350

1/15

250

373360

1/15



373350

NH3

U 1000V DC

BREAKING CAPACITY 30kA

CONTACTS KNIFE BLADE

STANDARDS 

200

373425 

1/15

250

373435

1/15

315

373445

1/15

355

373450

1/15

400

373455

1/15



373435

STANDARDS

IEC 60269-1
IEC 60269-6
UL 248-19

DIMENSIONS

PAG 23

t-I CHARACTERISTICS

PAG 24

AMBIENT TEMPERATURE DERATING FACTOR

PAG 49

COMPATIBLE ST NH 1000V AC BASES

PAG 14

NH | gPV NH 1000V DC fuse links

NH gPV fuse links for photovoltaic installations have been developed to offer a safety protection solution in sub-array, array or inverter DC input of photovoltaic installations.

They provide protection against overloads as well as short-circuits (gPV class according to IEC 60269 and UL248-19 Standards, with a minimum fusing current of 1,35·In. Made with ceramic body with high withstand to internal pressure and thermal shock. Contacts are made in silver plated copper or brass and melting elements are made in pure silver in order to avoid the aging and thus keep unalterable the electric characteristics.

This bolted type is specially designed for applications where can be mounted directly on busbars.



U **1000V DC**

BREAKING CAPACITY **30kA**

CONTACTS **BOLTED BLADE**

In
(A)

REFERENCE

PACKING

Uni /BOX

25

373210 B

1/30

32

373215 B

1/30

40

373225 B

1/30

50

373230 B

1/30

63

373235 B

1/30

80

373240 B

1/30

100

373245 B

1/30

125

373250 B

1/30

160

373255 B

1/30

200

373260 B

1/30



373260B



U **1000V DC**

BREAKING CAPACITY **30kA**

CONTACTS **BOLTED BLADE**

200

373350 B

1/15

250

373360 B

1/15



373350B



U **1000V DC**

BREAKING CAPACITY **30kA**

CONTACTS **BOLTED BLADE**

200

373425 B

1/15

250

373435 B

1/15

315

373445 B

1/15

355

373450 B

1/15

400

373455 B

1/15



373435B

STANDARDS

IEC 60269-1
IEC 60269-6
UL 248-19

DIMENSIONS

PAG 23

t-I CHARACTERISTICS

PAG 24

AMBIENT TEMPERATURE DERATING FACTOR

PAG 49

NH | gPV NH XL1500V DC fuse links

NH gPV 1500V DC fuse links for photovoltaic installations have been developed to offer a safety protection solution in sub-array, array or inverter DC input of photovoltaic installations.

They provide protection against overloads as well as short-circuits (gPV class according to IEC 60269 and UL248-19 Standards), with a minimum fusing current of 1,35·In. Made with ceramic body with high withstand to internal pressure and thermal shock. Contacts are made of silver plated copper and melting elements are made of pure silver in order to avoid the aging and thus keep unalterable the electric characteristics. They have a low power losses values to get a good efficiency.

For these fuselinks we recommend the utilization of 1500V DC NH XL fuse bases.



1500V DC

BREAKING CAPACITY
 UL > 30kA
 IEC > 100kA
(40A, 100A, 30kA)

CONTACTS
 KNIFE
 BLADE

STANDARDS


In (A)	REFERENCE	PACKING Uni /BOX
40	372225 	1/18
50	372230 	1/18
63	372235 	1/18
80	372240 	1/18
100	372245 	1/18
125	372250 	1/18
160	372255 	1/18
200	372260	1/18



372235



1500V DC

BREAKING CAPACITY
 UL > 30kA
 IEC > 100kA

CONTACTS
 KNIFE
 BLADE

STANDARDS


200	372350 	1/10
250	372360 	1/10



372360



1500V DC

BREAKING CAPACITY
 UL > 30kA
 IEC > 100kA

CONTACTS
 KNIFE
 BLADE

315	372445 	1/10
350	372448 	1/10
355	372450 	1/10
400	372455 	1/10



372455

STANDARDS

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

DIMENSIONS

PAG 25

t-I CHARACTERISTICS

PAG 26

AMBIENT TEMPERATURE DERATING FACTOR

PAG 49

COMPATIBLE ST NH 1500V DC BASES

PAG 15

NH | gPV NH XL1500V DC fuse links

NH gPV 1500V DC fuse links for photovoltaic installations have been developed to offer a safety protection solution in sub-array, array or inverter DC input of photovoltaic installations.

They provide protection against overloads as well as short-circuits (gPV class according to IEC 60269 and UL248-19 Standards), with a minimum fusing current of 1,35·In. Made with ceramic body with high withstand to internal pressure and thermal shock. Contacts are made of silver plated copper and melting elements are made of pure silver in order to avoid the aging and thus keep unalterable the electric characteristics. They have a low power losses values to get a good efficiency.

This bolted type is specially designed for applications where can be mounted directly on busbars.



U **1500V DC**

BREAKING CAPACITY **UL > 30kA
IEC > 100kA<sup>40kA, 100kA
30kA^{200A}</sup>**

CONTACTS **BOLTED
BLADE**

In (A)	REFERENCE	PACKING Uni /BOX
40	372225 B 	1/18
50	372230 B 	1/18
63	372235 B 	1/18
80	372240 B 	1/18
100	372245 B 	1/18
125	372250 B 	1/18
160	372255 B 	1/18
200	372260 B	1/18



372260B



U **1500V DC**

BREAKING CAPACITY **UL > 30kA
IEC > 100kA**

CONTACTS **BOLTED
BLADE**

200	372350 B 	1/10
250	372360 B 	1/10



372360B



U **1500V DC**

BREAKING CAPACITY **UL > 30kA
IEC > 100kA**

CONTACTS **BOLTED
BLADE**

315	372445 B 	1/10
350	372448 B 	1/10
355	372450 B 	1/10
400	372455 B 	1/10



372455B

STANDARDS

**IEC 60269-1
IEC 60269-6
UL 248-19**

DIMENSIONS

PAG 25

t-I CHARACTERISTICS

PAG 26

AMBIENT TEMPERATURE DERATING FACTOR

PAG 49

NH | gG/gL & gS NH 800V AC fuse links

These knife type (NH) fuse links with high breaking capacity are intended for protection of the output side of new generation of photovoltaic inverters, with output voltage of 800V AC. They are also adequate for the protection of 690V AC capacitor banks. They are gG class and provide protection against overloads and short-circuits with rated voltages up to 800V +10%. The rated breaking capacity is 80kA. They have a low values of power dissipations. Manufactured with ceramic body with high withstand to internal pressure and thermal shock, that allows a high breaking capacity. Knife contacts are made of silver plated copper or brass.

Can be mounted in open-type ST fuse bases or in fuse disconnectors type BS.



U **800V AC**

BREAKING
CAPACITY **80kA**

I_n
(A)

REFERENCE

PACKING

Uni /BOX

25
35
40
50
63
80
100

369030
369035
369045
369050
369055
369060
369065

3/30
3/30
3/30
3/30
3/30
3/30
3/30



369065



U **800V AC**

BREAKING
CAPACITY **80kA**

25
35
40
50
63

385210
385220
385225
385230
385235

3/30
3/30
3/30
3/30
3/30



385235



U **800V AC**

BREAKING
CAPACITY **80kA**

80
100
125
160
200

385240
385245
385250
385255
385260

3/30
3/30
3/30
3/30
3/30



385255



U **800V AC**

BREAKING
CAPACITY **80kA**

200
250
315
355
400

385425
385435
385445
385450
385455

3/18
3/18
3/18
3/18
3/18



385445

STANDARDS

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

DIMENSIONS

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t-I CHARACTERISTICS

PAG 28

AMBIENT TEMPERATURE DERATING FACTOR

PAG 49

COMPATIBLE ST NH 800V AC BASES

PAG 16

PMX CYLINDRICAL fuse holders

**PATENTED
DESIGN**

The first feature that PV Modular fuse holders offers, is the 1000V DC rated voltages. They have been developed to offer a compact, safety and economic protection solution in photovoltaic installations where due to the increase of the power and technology evolution, no-load voltages above 800V DC can be achieved.

Modular fuse holders for 10x38 & 14x51 gPV fuses according IEC/EN 60269 standard. Compact design, with reduced distances. Manufactured with a high quality materials: Silver plated copper contacts and plastic materials with high temperature resistance and selfextinguishable.

All the materials are according to the European Directive RoHS (Restriction of the use of certain hazardous substances in electrical material).

10x38
U 1000V DC
In 32A
STANDARDS  

INDICATOR	POLES	MODULES	REFERENCE	PACKING Uni /BOX
NO	SINGLE-POLE	1	485150  	12/192
NO	TWO-POLES	2	485151  	6/96
YES	SINGLE-POLE	1	485152  	12/192
YES	TWO-POLES	2	485153  	6/96



485152

14x51
U 1100V DC
In 50A

NO	SINGLE-POLE	1	485250	6/90
NO	TWO-POLES	2	485251	3/45
YES	SINGLE-POLE	1	485252	6/90
YES	TWO-POLES	2	485253	3/45



485252

22x65
U 1500V DC
In 100A
STANDARDS 

NO	SINGLE-POLE	1	485720 	6/48
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STANDARDS

IEC/EN 60269-1 **UL 4248-1**
IEC/EN 60269-2 **UL 4248-19**
CSA 4248-19

DIMENSIONS

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PAG 32 
PAG 35 

ACCESSORIES

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PAG 33 
PAG 36 

COMPATIBLE gPV CYL FUSE LINKS

PAG 04

PMLe CYLINDRICAL fuse holders

**PATENTED
DESIGN**

Fuse holder for cylindrical fuse link size 10x85 gVP and 10/14x85 gPV.

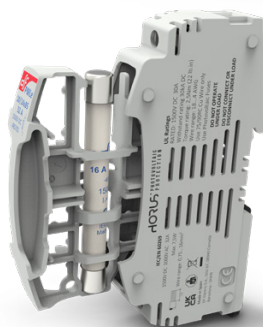
- Modern compact design.
- Ventilation zones optimized for a better heat dissipation.
- Manufactured with a high quality materials.
- Silver plated copper contacts.
- Plastic materials with high temperature resistance and self-extinguishable.
- All the materials are according to the European Directive RoHS (Restriction of the use of certain hazardous substances in electrical material) and also halogen free.

10x85	10/14x85
U	1500V DC
In	32A

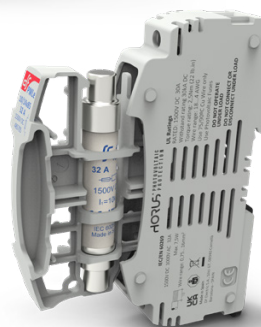
POLES	MODULES (mm)	REFERENCE	PACKING Uni /BOX
SINGLE-POLE	22,5	485705	10/100



PMLe
10x85
10/14x85
1500V DC



10x85 position



10/14x85 position

STANDARDS
IEC/EN 60269-1 UL 4248-1 IEC/EN 60269-2 UL 4248-19

DIMENSIONS
PAG 38

ACCESSORIES
PAG 39

COMPATIBLE gPV CYL FUSE LINKS
PAG 05



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

10x85

FIXATION

SCREW

U

UP TO 1500V AC/DC

In

25A

Pd max
(W)

4

REFERENCE

482001

PACKING

Uni /BOX

50/200



10x38

10x85

FIXATION

PCB

U

UP TO 1500V AC/DC

In

25A

4

482002

50/200



DIMENSIONS

PAG 40

COMPATIBLE
gPV CYL FUSE LINKS

PAG 04 | 05

ST NH 1000V DC bases

Fuse bases for NH fuse links. 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. For screw fixing. Single-phase type. Connection by screws.

Contacts with double spring in order to obtain an optimum operation. Wide range of accessories that enables IP20 protection index: contact covers, fuse link covers and partition walls. Multi-pole units can be made with connection accessories.

Manufactured according IEC, VDE and DIN standards.
UL certification (File E359201).

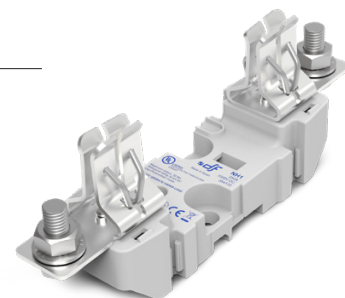
NH1

U 1000V DC

In 250A

STANDARDS 

POLES	FIXING	CONNECTION	REFERENCE	PACKING
SINGLE-POLE	DIN RAIL/SCREW	SCREW	354172 	1 Uni /BOX



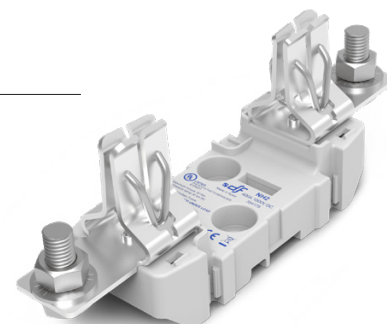
NH2

U 1000V DC

In 400A

STANDARDS 

SINGLE-POLE	DIN RAIL/SCREW	SCREW	354175 	1
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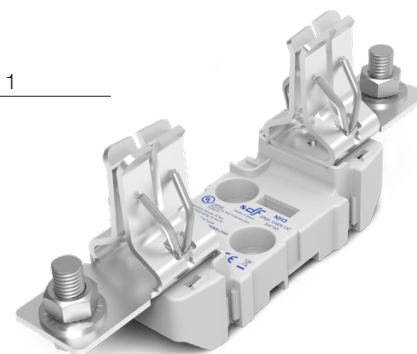
NH3

U 1000V DC

In 500A

STANDARDS 

SINGLE-POLE	DIN RAIL/SCREW	SCREW	354180 	1
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STANDARDS

IEC/EN 60269-1 UL 4248-1
IEC/EN 60269-2 UL 4248-19

DIMENSIONS

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ACCESSORIES

PAG 17

ACCESSORIES ASSEMBLY

PAG 44

COMPATIBLE gPV NH 1000V DC FUSE LINKS

PAG 06

ST NH XL1500V DC fuse bases

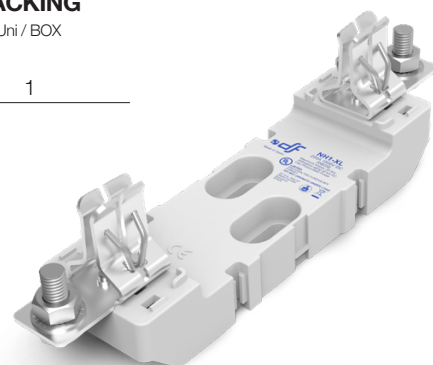
Fuse bases for NH fuse-links. Manufactured with a high quality materials. Silver plated copper contacts. Plastic materials with high temperature resistance and self-extinguishable. All the materials are according to the European Directive RoHS. For screw fixing. Single-phase type. Connection by screws.

Contacts with double spring in order to obtain an optimum operation. Wide range of accessories that enables IP20 protection index: contact covers, fuse link covers and partition walls. Multi-pole units can be made with connection accessories.

Manufactured according IEC, VDE and DIN standards.
UL certification (File E359201).

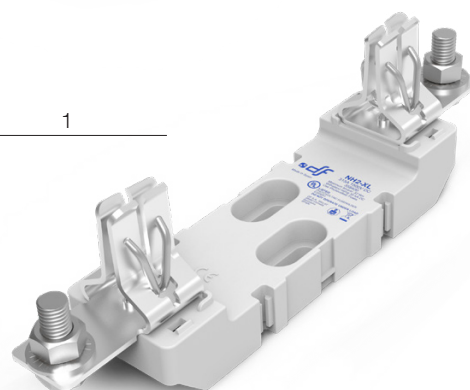
NH1 XL	
U	1500V DC
I _N	200A
STANDARDS	UL

POLES	FIXING	CONNECTION	REFERENCE	PACKING Uni / BOX
SINGLE-POLE	SCREW	SCREW	358250 	1



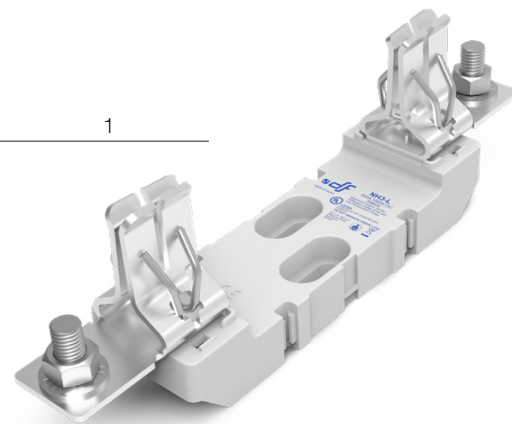
NH2 XL	
U	1500V DC
I _N	315A
STANDARDS	UL

POLES	FIXING	CONNECTION	REFERENCE	PACKING Uni / BOX
SINGLE-POLE	SCREW	SCREW	358400 	1



NH3 L	
U	1500V DC
I _N	500A
STANDARDS	UL

POLES	FIXING	CONNECTION	REFERENCE	PACKING Uni / BOX
SINGLE-POLE	SCREW	SCREW	358630 	1



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-2
IEC/EN 60269-6

UL 4248-1
UL 4248-19

DIMENSIONS

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ACCESSORIES

PAG 17

ACCESSORIES ASSEMBLY

PAG 45

COMPATIBLE gPV XL NH 1500V DC FUSE LINKS

PAG 08

ST NH 690V/800V AC fuse bases

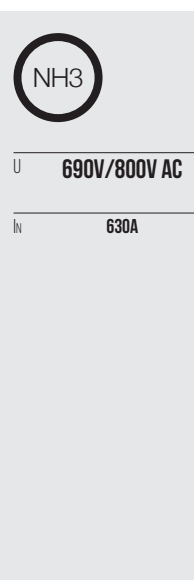
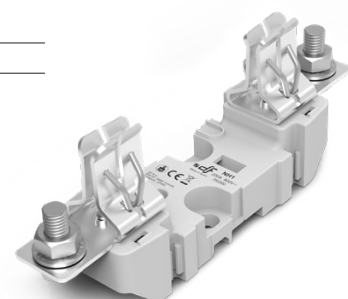
Fuse bases for NH fuse-links. Manufactured with a high quality materials. Silver plated copper contacts. Plastic materials with high temperature resistance and self-extinguishable. All the materials are according to the European Directive RoHS. For mounting on DIN/EN rail or with screw fixing. Single-phase or three-pole type. Connection by screws.

Contacts with double spring in order to obtain an optimum operation. Wide range of accessories that enables IP20 protection index: contact covers, fuse link covers and partition walls. Multi-pole units can be made with connection accessories.

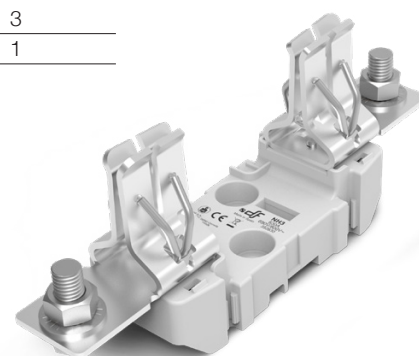
Manufactured according IEC, EN and DIN standards.



POLES	FIXING	CONNECTION	REFERENCE	PACKING Uni / BOX
SINGLE-POLE	DIN RAIL / SCREW	SCREW	352300	3
THREE-POLE	DIN RAIL / SCREW	SCREW	353300	1



SINGLE-POLE	DIN RAIL / SCREW	SCREW	352630	3
THREE-POLE	DIN RAIL / SCREW	SCREW	353630	1



STANDARDS

IEC/EN 60269-1
IEC/EN 60269-2
DIN 43620

DIMENSIONS

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ACCESSORIES

PAG 17

ACCESSORIES ASSEMBLY

PAG 46

COMPATIBLE gG/GL NH 800V AC FUSE LINKS

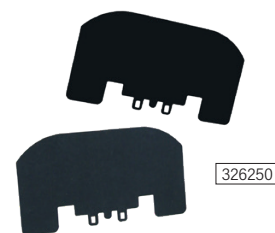
PAG 10

ST NH ACCESSORIES fuse bases

ST

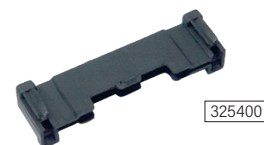
PARTITION WALLS SNAP FIXATION

SIZE	REFERENCE	PACKING Uni / BOX
NH1 (OVER SEPARATOR)	326200	2
NH1 (DIRECTLY TO BODY)	326201	2
NH2	326250	2
NH3	326630	2
NH1XL	326255	2
NH2XL	326405	2
NH3L	326635	2



SEPARATORS FOR MULTIPOLE UNITS

NH1	325250	2
NH1XL - NH2 / NH2XL	325400	2
NH3 - NH3L	325630	2



TERMINAL COVERS

NH1	325005	6
NH1XL	325002	6
NH2 / NH2XL	325003	6
NH3 / NH3L	325007	6



FUSE LINKS COVERS

NH1	325018	3
NH2	325020	3
NH3	325025	3



MICROSWITCHES

NH000...NH3 NH1XL - NH2XL - NH3L	357010	1/12
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FUSE PULLERS

DIMENSIONS
PAG 41

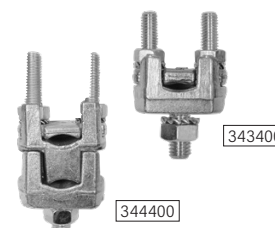
INSTRUCTIONS
PAG 42

NH00...NH4	340001	1
NH1XL - NH2XL - NH3L	340005	1



TERMINALS

SIZE	CROSS SECTION (mm²)	CABLE	REFERENCE	PACKING Uni / BOX
1	150/16	1 CABLE	343400	3
2/3	240/50	1 CABLE	343630	3
1	150/25-16	2 CABLES	344400	3
2/3	240/95-50	2 CABLES	344630	3

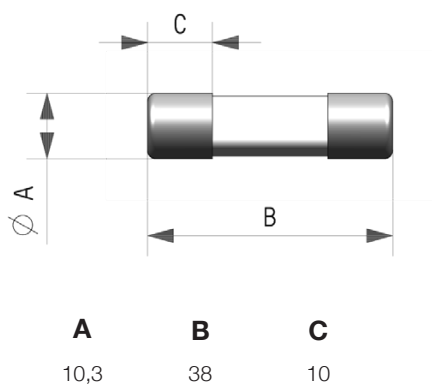


CYL 10x38 gPV CYLINDRICAL fuse links

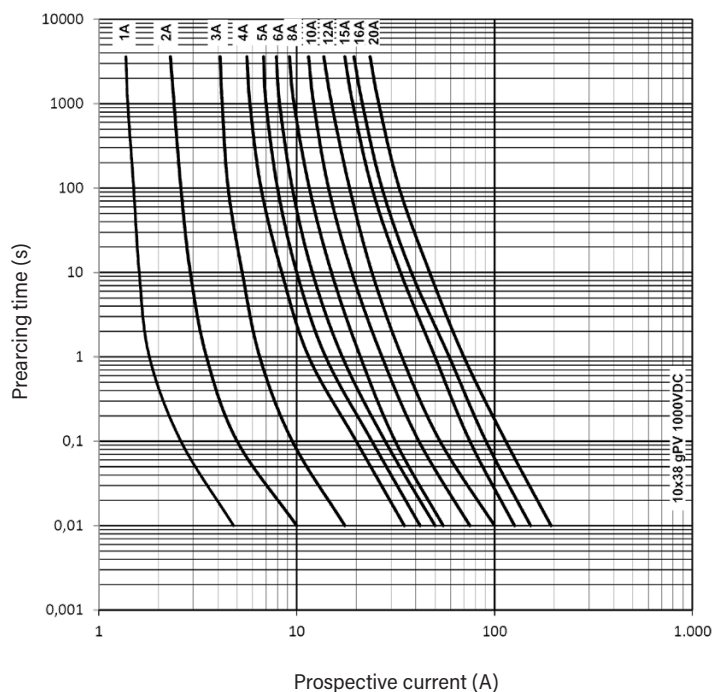
RATED VOLTAGE 1000V DC
RATED CURRENT 1A...20A
BREAKING CAPACITY 30kA



DIMENSIONS



t-I CHARACTERISTICS



POWER DISSIPATION

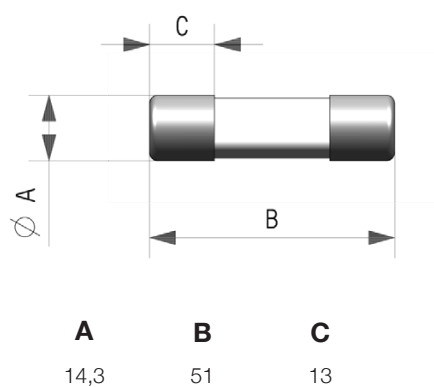
RATED CURRENT (A)	REFERENCE	POWER DISSIPATION (W @ 0,7 In)	POWER DISSIPATION (W @ In)	PREARcing I ² t (A ² s)	OPERATING I ² t (A ² s)
1	491601	0,31	0,76	0,35	1,30
2	491602	0,78	1,45	0,62	1,00
3	491604	0,66	1,66	1,90	3,10
4	491605	0,64	1,57	6,90	11
5	491606	0,60	1,65	14	22
6	491610	0,77	1,84	24	38
8	491615	0,82	2,00	7	17
10	491620	0,94	2,20	15	38
12	491625	0,98	2,40	27	68
15	491629	1,05	2,65	62	115
16	491630	1,10	2,70	89	165
20	491635	1,33	3,20	158	294

CYL 14x51 gPV CYLINDRICAL fuse links

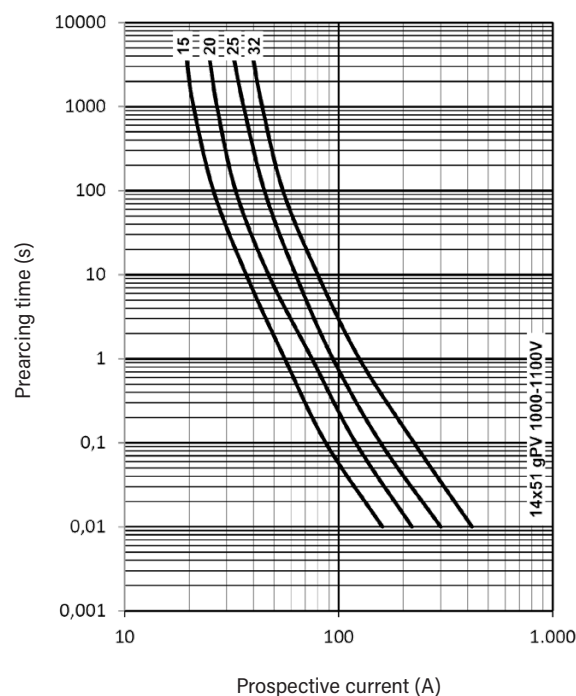
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
1100V DC	15A 20A	10kA
1000V DC	25A 32A	30kA



DIMENSIONS



t-I CHARACTERISTICS



POWER DISSIPATION

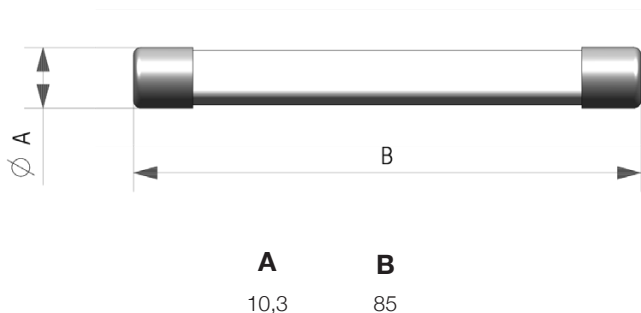
		RATED CURRENT (A)	REFERENCE	POWER DISSIPATION (W @ 0,7 I _n)	POWER DISSIPATION (W @ I _n)	PREARcing I ² t _i (A ² s)	OPERATING I ² t _i (A ² s)
U	1100V DC	15	491647	1,34	3,14	48	112
		20	491648	1,55	3,68	99	367
U	1000V DC	25	491650	1,60	3,80	275	650
		32	491655	2,00	4,70	550	1300

CYL 10x85 gPV CYLINDRICAL fuse links

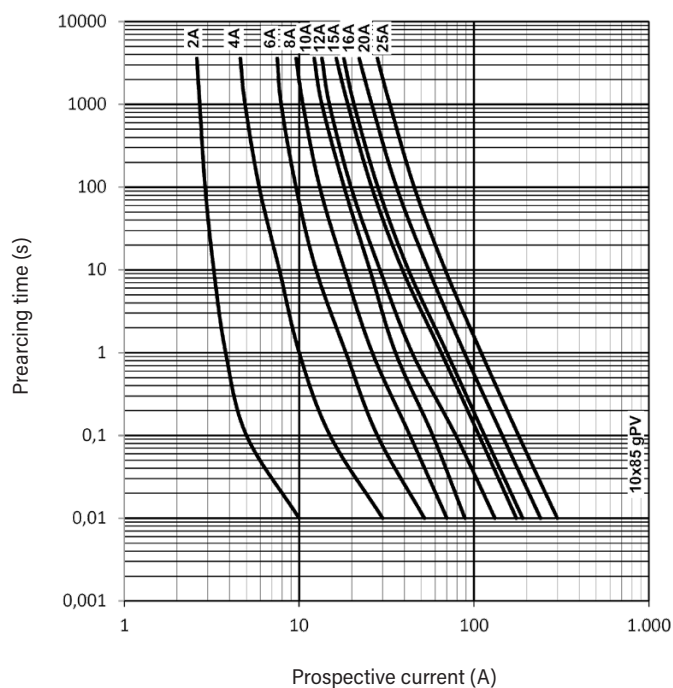
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
1500V DC	2A...16A	30kA
1200V DC	20A 25A	10kA



DIMENSIONS



t-I CHARACTERISTICS



POWER DISSIPATION

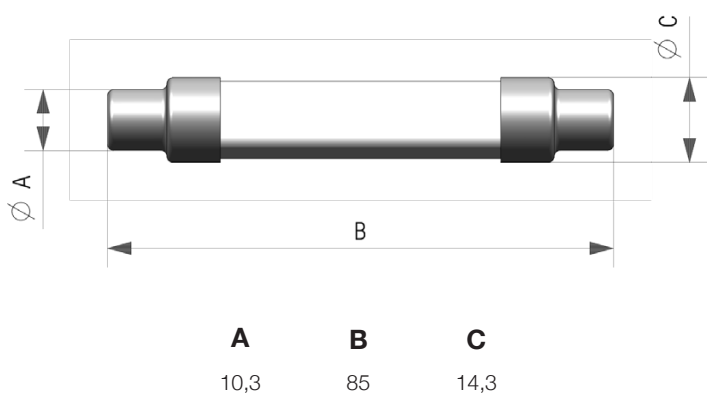
	RATED CURRENT (A)	REFERENCE	POWER DISSIPATION		PREARcing I ² t (A ² s)	OPERATING I ² t (A ² s)
			(W @ 0,7 I _n)	(W @ I _n)		
U	1500V DC					
	2	492202	1,28	3,2	0,8	1,1
	4	492205	1,16	2,9	13	17
	6	492210	1,04	2,6	65	84
	8	492215	1,13	2,8	175	225
	10	492220	1,36	3,4	44	72
	12	492225	1,56	3,9	78	129
	15	492229	1,79	4,5	121	201
	16	492230	1,92	4,8	175	290
U	1200V DC					
	20	492235	2,04	5,1	242	478
	25	492240	2,20	5,5	545	1075

CYL 10/14x85 gPV CYLINDRICAL fuse links

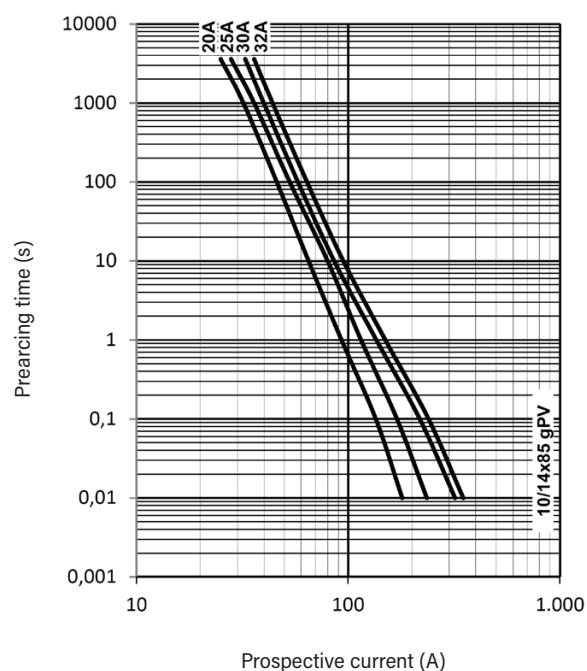
RATED VOLTAGE 1500V DC
RATED CURRENT 20A...32A
BREAKING CAPACITY 30kA



DIMENSIONS



t-I CHARACTERISTICS



POWER DISSIPATION

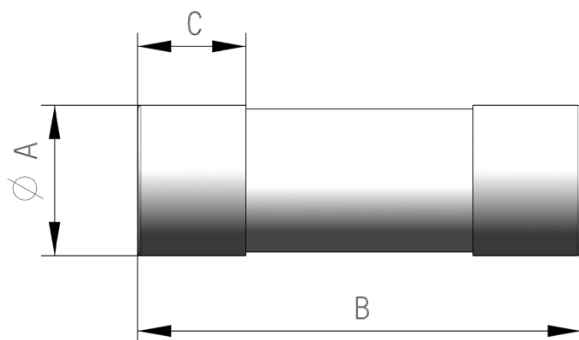
RATED CURRENT (A)	REFERENCE	POWER DISSIPATION (W @ 0,7 I _n)	POWER DISSIPATION (W @ I _n)	PREARcing I ² t (A ² s)	OPERATING I ² t (A ² s)
20	492250	2,17	5,44	67	221
25	492255	2,46	6,22	136	452
30	492260	2,66	6,70	220	730
32	492262	3,00	8,00	267	885

CYL 22x65 gPV CYLINDRICAL fuse links

RATED VOLTAGE 1500V DC
RATED CURRENT 40A...60A
BREAKING CAPACITY 30kA

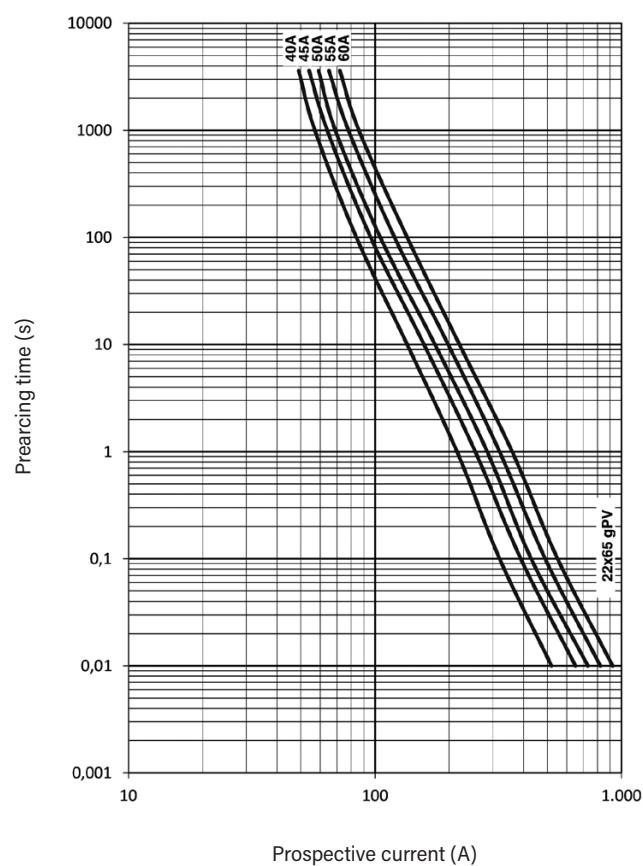


DIMENSIONS



A	B	C
22,3	65	15,5

t-I CHARACTERISTICS



POWER DISSIPATION

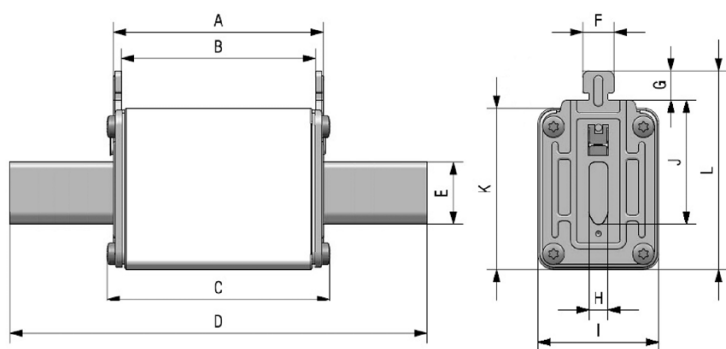
RATED CURRENT (A)	REFERENCE	POWER DISSIPATION (W @ 0,7 In)	POWER DISSIPATION (W @ In)	PREARcing I ² t (A ² s)	OPERATING I ² t (A ² s)
40	492270	3,80	9,5	590	1.355
45	492272	3,80	9,5	1.050	2.400
50	492275	4,00	10,0	1.330	3.050
55	492278	4,70	11,7	1.325	3.100
60	492280	4,95	12,5	1.800	3.900



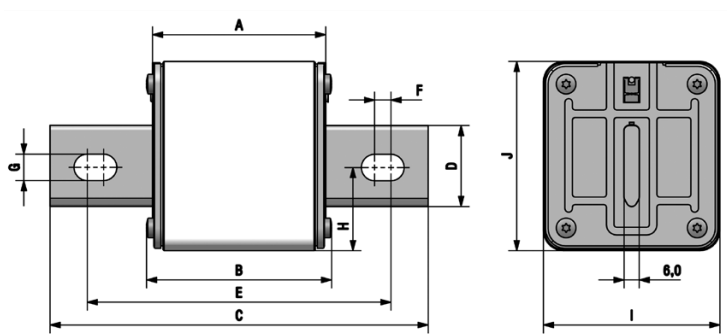
gPV NH 1000V DC fuse links

RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
1000V DC	25A...400A	30kA

DIMENSIONS



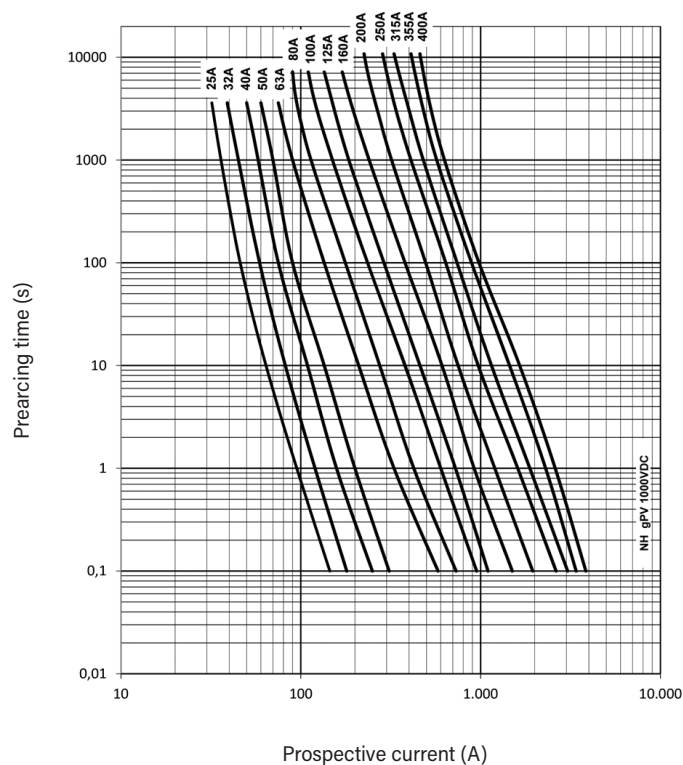
	A	B	C	D	E	F	G	H	I	J	K	L
NH1	68	62	71,5	135	20	10	9,5	6	39	40	52	64
NH2	68	62	71,5	150	25	10	9,5	6	53	48	60	72
NH3	68	62	73	150	32	10	9,5	6	70	60	75	87



	A	B	C	D	E	F	G	H	I	J
NH1	68	71,5	135	20	113	9	8,5	25,6	39	52,5
NH2	68	71,5	150	25	118	9	10,5	27	53	60,5
NH3	68	73	150	32	120	6,5	10,5	33	70	75



t-I CHARACTERISTICS



POWER DISSIPATION

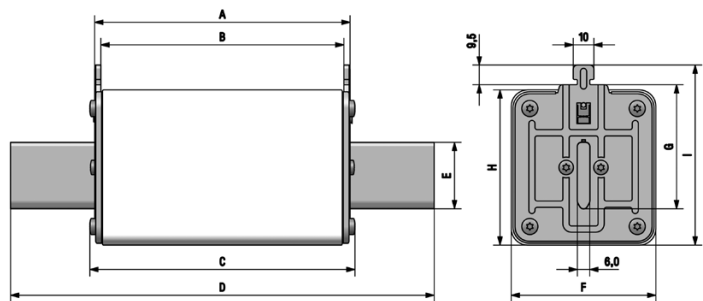
RATED CURRENT		REFERENCE		POWER DISSIPATION	POWER DISSIPATION	PREARcing I^2t	OPERATING I^2t
(A)				(W @ 0,7 In)	(W @ In)	(A ² s)	(A ² s)
NH1 NH1 B	25	373210	373210 B	5,2	12,5	62	94
	32	373215	373215 B	6,3	15,5	122	184
	40	373225	373225 B	6,7	16,6	302	454
	50	373230	373230 B	7,5	18	562	844
	63	373235	373235 B	8,2	20	1.210	1.815
	80	373240	373240 B	10	27	2.250	3.375
	100	373245	373245 B	11	28	4.000	6.000
	125	373250	373250 B	12,5	32	6.500	9.700
	160	373255	373255 B	13,5	34,0	9.200	16.600
	200	373260	373260 B	12,5	30,0	19.900	38.300
NH2 NH2 B	200	373350	373350 B	11,4	28,0	18.700	36.400
	250	373360	373360 B	13,0	33,3	36.800	71.500
NH3 NH3 B	200	373425	373425 B	19,5	48,0	21.700	31.700
	250	373435	373435 B	20,5	51,5	41.000	60.000
	315	373445	373445 B	26,2	66,0	76.000	111.500
	355	373450	373450 B	18,0	46,5	74.700	130.700
	400	373455	373455 B	20,0	51,0	104.400	182.600



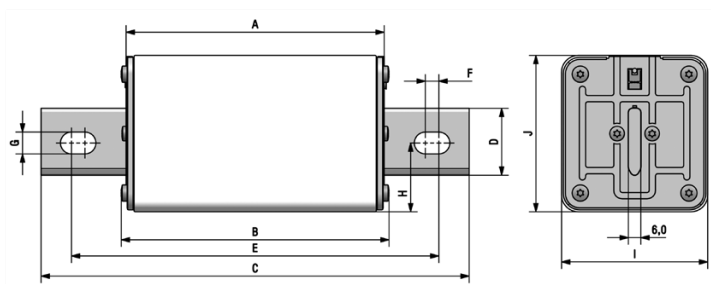
gPV NH XL 1500V DC fuse links

RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
1500V DC	40A...400A	30kA

DIMENSIONS



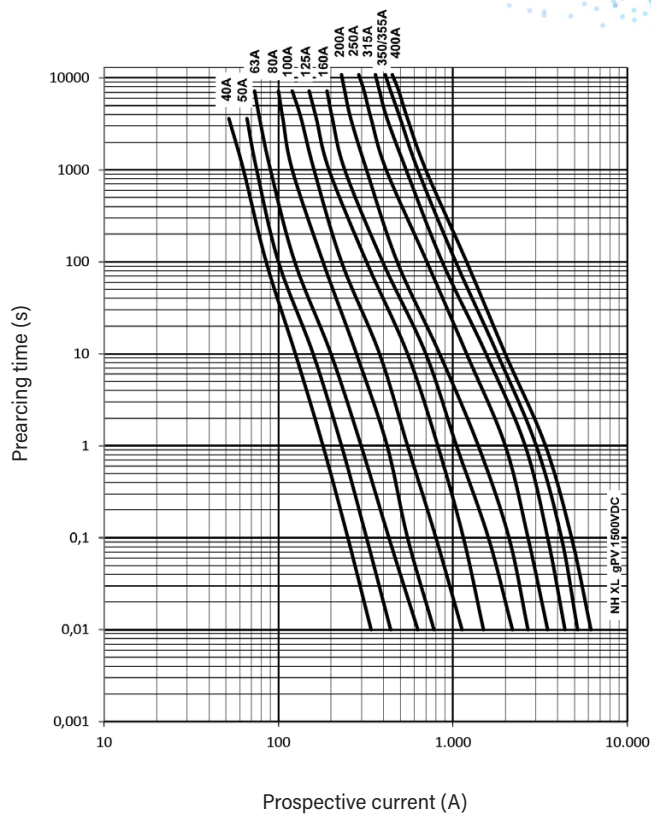
	A	B	C	D	E	F	G	H	I
NH1XL	126	120	129	191	20	39	40	52,5	64,5
NH2XL	122,6	117,6	126,7	205	25	53	48	60,5	72
NH3L	123,6	117,6	128,3	205	32	70	60	75	87



	A	B	C	D	E	F	G	H	I	J
NH1XL B	126	129	191	20	170,5	9	8,5	25,6	39	52,5
NH2XL B	122,6	126,7	205	25	173	9	10,5	27	53	60,5
NH3L B	123,6	128,3	205	32	176	6,5	10,5	33	70	75



t-I CHARACTERISTICS



POWER DISSIPATION

	RATED CURRENT		REFERENCE	POWER DISSIPATION		PREARcing I ² t	OPERATING I ² t
	(A)			(W @ 0,7 In)	(W @ In)	(A ² s)	(A ² s)
	40	372225	372225 B	6,3	15	260	490
	50	372230	372230 B	7,2	18	560	1.170
	63	372235	372235 B	7,6	19	1.160	2.460
	80	372240	372240 B	10	25	1.760	3.720
	100	372245	372245 B	10,4	26	3.970	8.380
	125	372250	372250 B	12	30	7.070	14.900
	160	372255	372255 B	15	38	13.360	28.180
	200	372260	372260 B	19	47	24.850	52.400
	200	372350	372350 B	18	45	24.850	52.360
	250	372360	372260 B	21	52	42.000	88.500
	315	372445	372445 B	25	61	114.000	172.080
	350	372448	372448 B	26	66	159.230	240.350
	355	372450	372450 B	27	68	159.230	240.350
	400	372455	372455 B	30	75	212.000	320.000



gG / gL
NH 800V AC
fuse links

RATED VOLTAGE
800V AC

RATED CURRENT
25A...400A

BREAKING CAPACITY
80kA



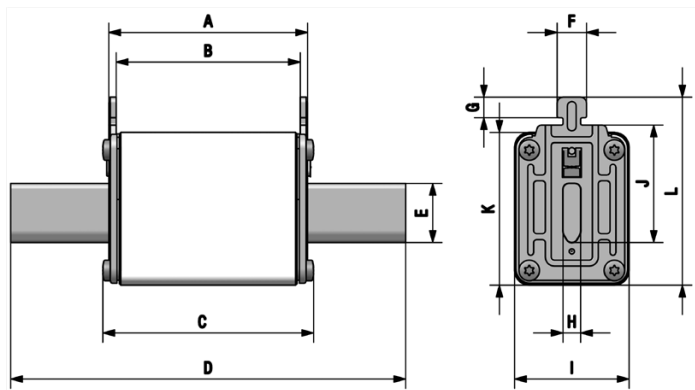
gS
NH 800V AC
fuse links

RATED VOLTAGE
800V AC

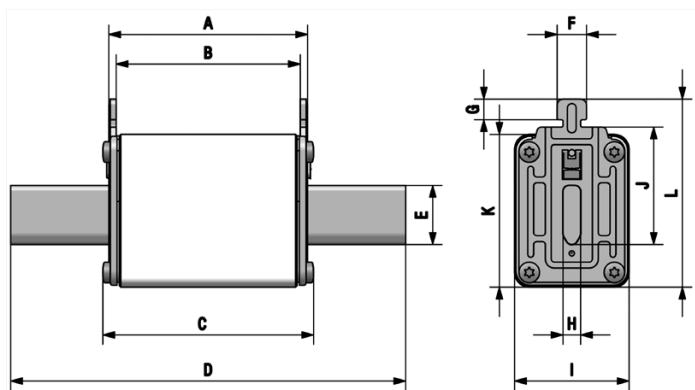
RATED CURRENT
25A...100A

BREAKING CAPACITY
120kA

DIMENSIONS



	A	B	C	D	E	F	G	H	I	J	K	L
NHC1	68	62	70,5	135	15	10	9,5	6	29	40	47	64
NH1	68	62	71,5	135	20	10	9,5	6	39	40	52	64
NH3	68	62	73	150	32	10	9,5	6	70	60	75	87

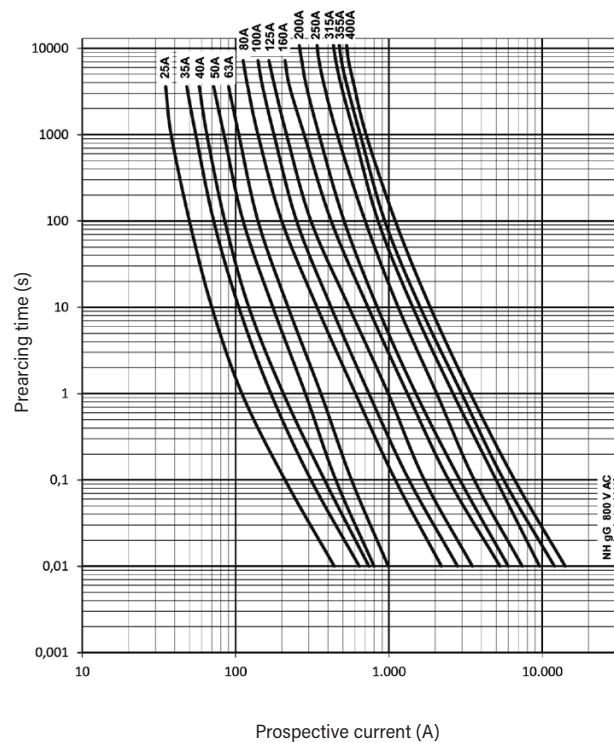


	A	B	C	D	E	F	G	H	I	J	K	L
NH00	49	44	52	78,5	15	10	9,5	6	29	35	47	59



t-I CHARACTERISTICS

POWER DISSIPATION



NHC1

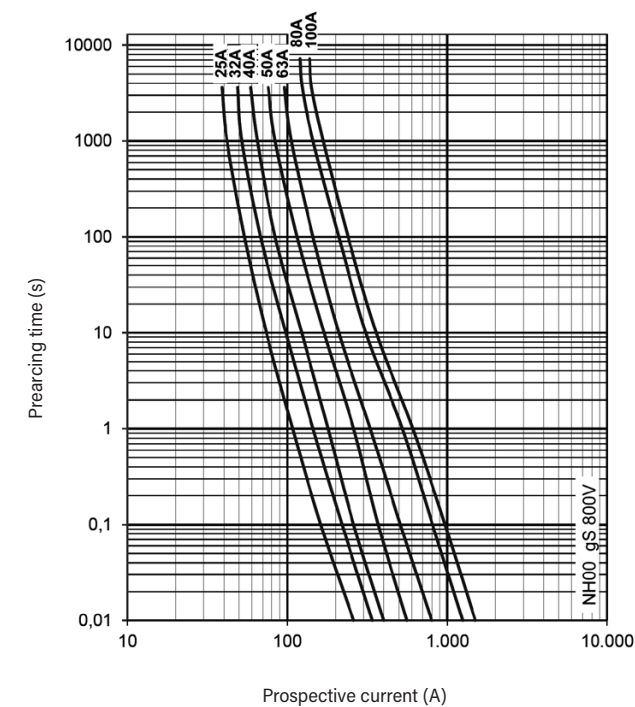
RATED CURRENT (A)	REFERENCE	POWER DISSIPATION (W)	PREARcing I ² t (A ² s)	OPERATING I ² t (A ² s 800V ~)
25	385210	4,1	1.150	2.770
35	385220	4,8	2.780	6.700
40	385225	5,0	4.600	11.080
50	385230	5,3	4.680	11.300
63	385235	6,1	9.400	22.670

NH1

80	385240	10,0	16.550	33.855
100	385245	12,0	32.430	66.355
125	385250	14,0	59.730	122.215
160	385255	18,0	95.300	195.000

NH3

200	385425	21,0	140.150	245.000
250	385435	25,0	241.500	422.000
315	385445	34,5	395.000	698.000
355	385450	37,0	539.000	1.230.000
400	385455	43,0	760.000	1.734.000



NHC00

RATED CURRENT (A)	REFERENCE	POWER DISSIPATION (W)		PREARcing I ² t (A ² s)	OPERATING I ² t (A ² s 800V ~)
		0,8 In	In		
25	369030	2,4	4,1	100	385
32	369035	2,6	4,6	260	990
40	369045	3,3	5,6	400	1.540
50	369050	3,7	6,1	790	3.025
63	369055	4,2	6,8	1.620	6.170
80	369060	4,8	8,3	3.170	12.100
100	369065	6,8	10,9	5.200	19.900



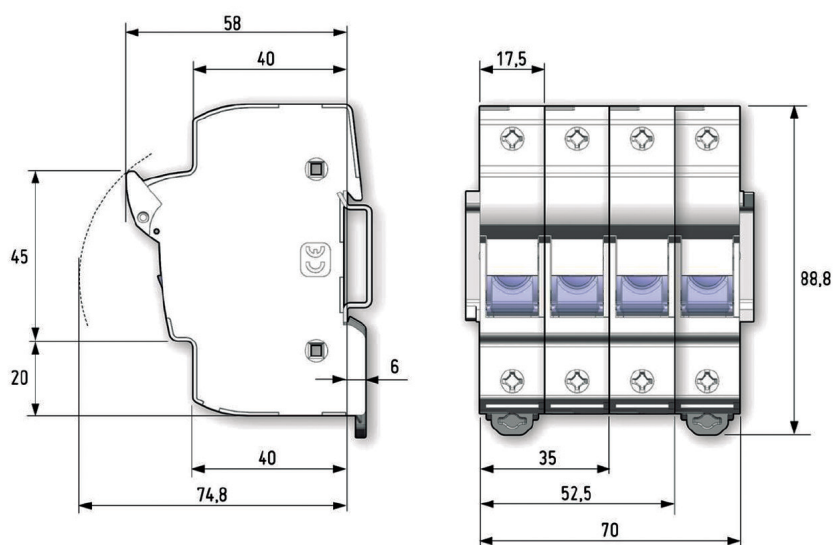
PMX CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
1000V DC 690V AC	32A	IP20



**PATENTED
DESIGN**

DIMENSIONS



ACCESSORIES

REFERENCE	DESCRIPTION	PACKING
		Uni /BOX
480005	PINS FOR MULTIPOLE ASSEMBLY	12
485050	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12
485051	LOCK SUPPORT	5
485052	SPECIAL IP20 PROTECTION ACCESSORY	24
485053	PHASE SEPARATOR ACCESSORY	12
485656	SCREWS PROTECTION ACCESSORY	20

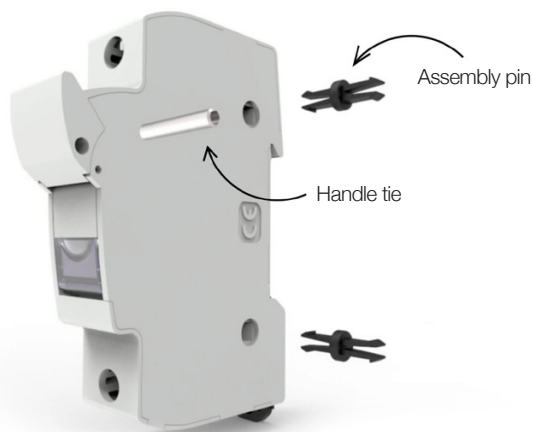


PMX
CYLINDRICAL
fuse holders

ACCESSORIES

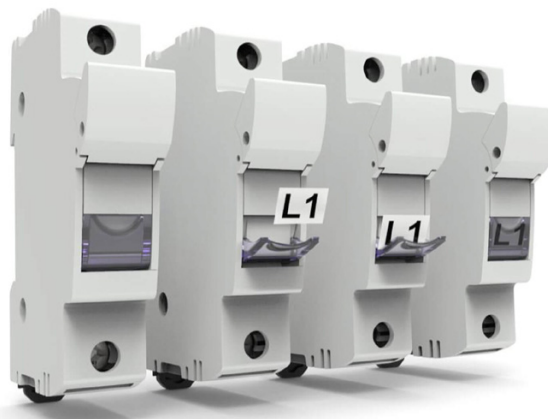
MULTIPOLAR ASSEMBLY

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

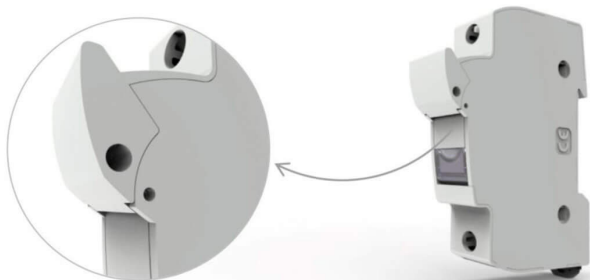


LOCKING MEANS A PADLOCK

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

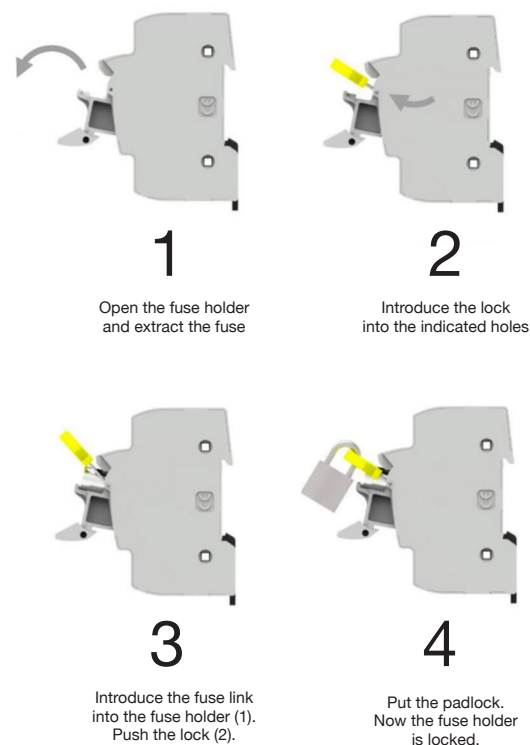
CLOSED FUSE HOLDER

PMX bases allow to be sealed by a wire



OPEN FUSE HOLDER

PMX lock accessory prevents the unauthorized use of the fuse holder

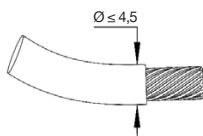




PMX CYLINDRICAL fuse holders ACCESSORIES

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





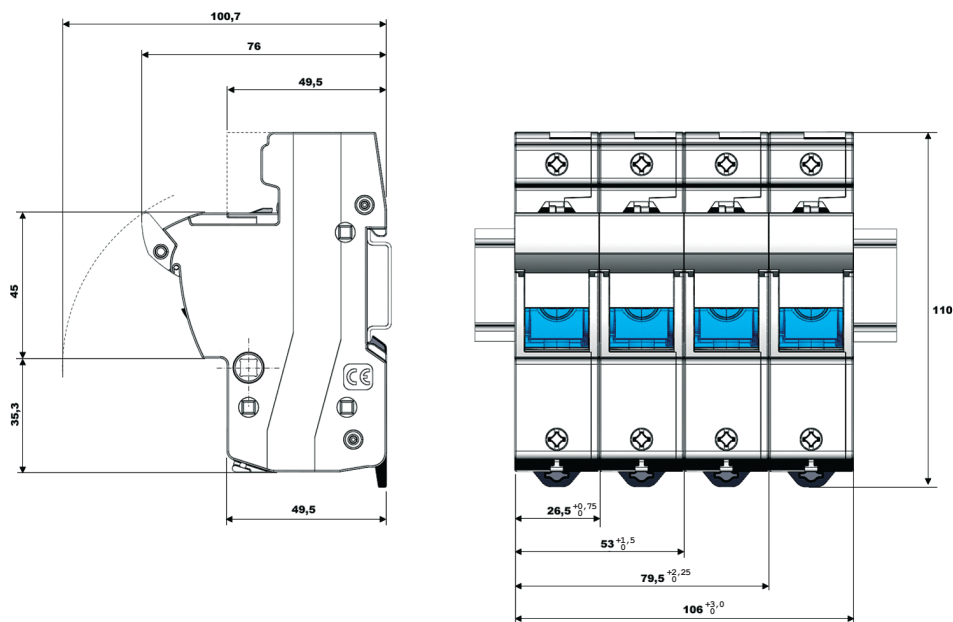
PMX CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
1000V DC 690V AC	50A	IP20



**PATENTED
DESIGN**

DIMENSIONS



ACCESSORIES

REFERENCE	DESCRIPTION	PACKING
		Uni /BOX
480005	PINS FOR MULTIPOLE ASSEMBLY	12
485356	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12
485258	LOCK SUPPORT	5
485266	SPECIAL IP20 PROTECTION ACCESSORY	12
485656	SCREWS PROTECTION ACCESSORY	12
485271	SPECIAL ACCESSORY SCREW CONNECTION	12

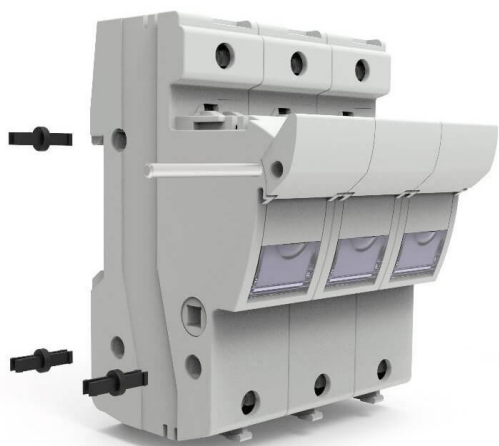
PMX 14x51

PMX
CYLINDRICAL
fuse holders

ACCESSORIES

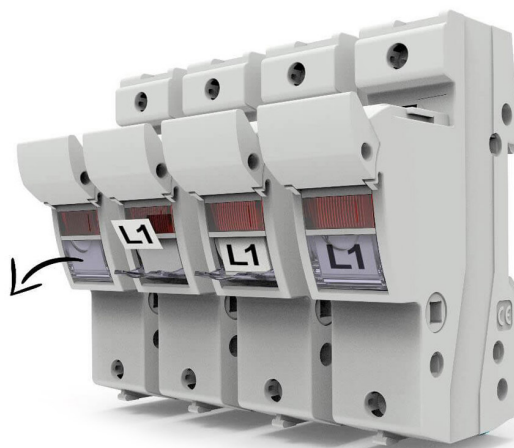
MULTIPOLAR ASSEMBLY

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.

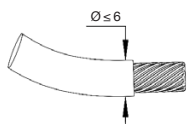




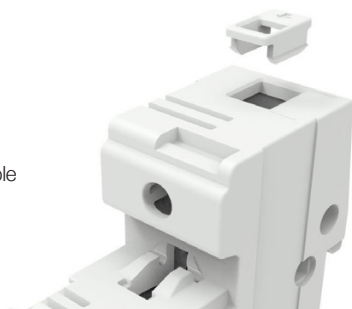
PMX CYLINDRICAL fuse holders ACCESSORIES

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

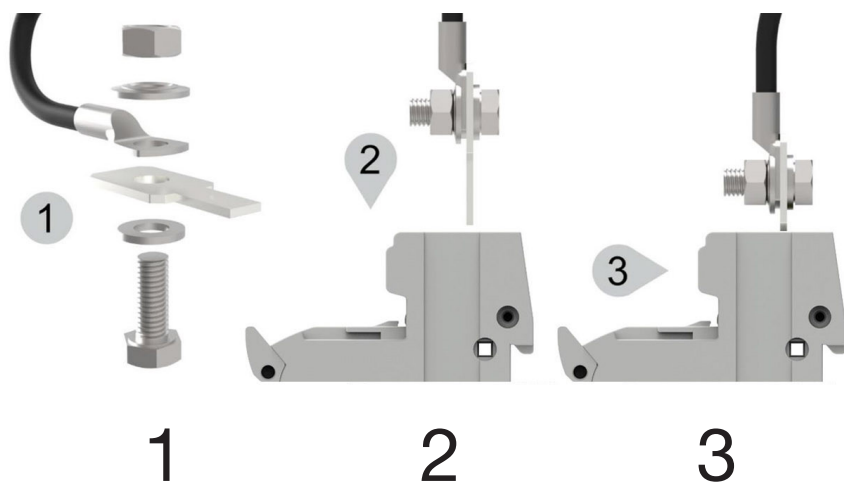


SCREW'S PROTECTION ACCESSORY

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



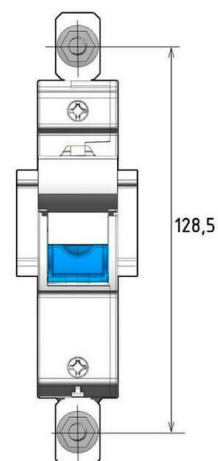
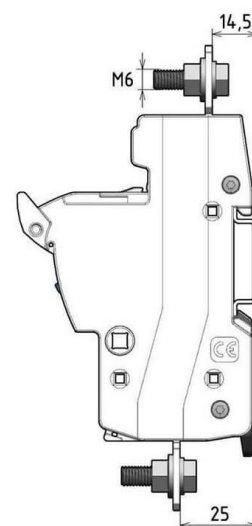
PMX-14 SPECIAL ACCESSORY SCREW CONNECTION



1 Mount the accessory in the wire (6Nm)

2 Wiring in the fuse holder

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





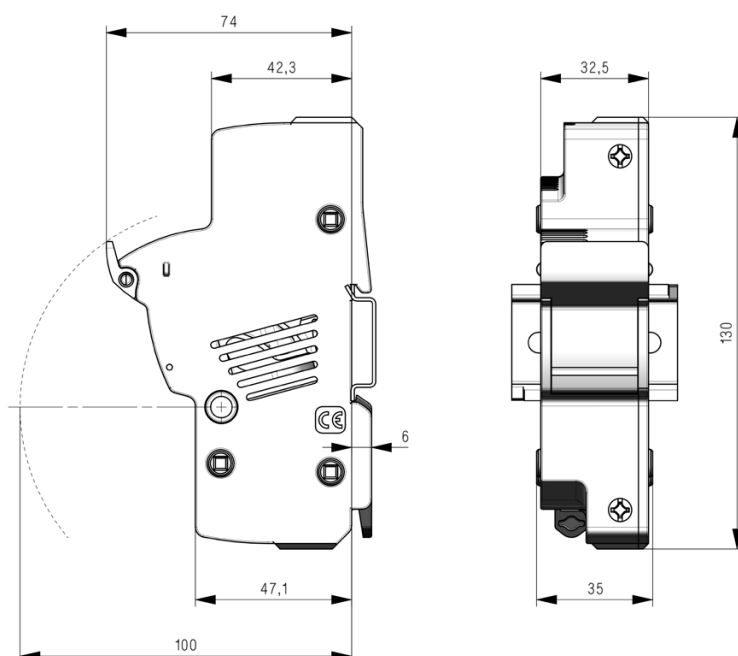
PMX CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
1500V DC	100A	IP20
1000V AC		



**PATENTED
DESIGN**

DIMENSIONS



ACCESSORIES

REFERENCE	DESCRIPTION	PACKING
		Uni /BOX
480005	PINS FOR MULTIPOLE ASSEMBLY	12
485356	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12
485266	SPECIAL IP20 PROTECTION ACCESSORY	12
485371	SPECIAL ACCESSORY SCREW CONNECTION	12

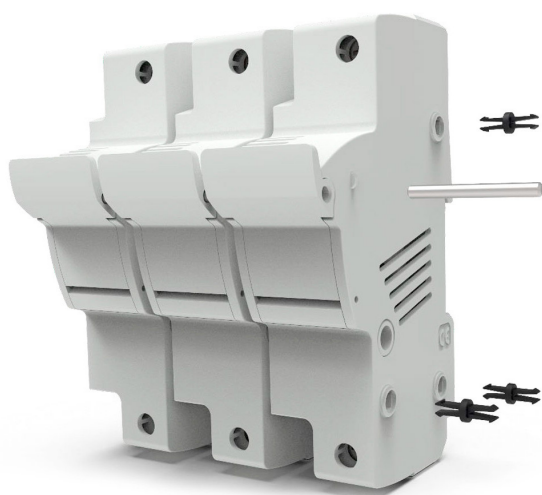


PMX
CYLINDRICAL
fuse holders

ACCESSORIES

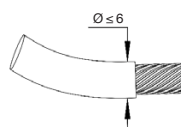
MULTIPOLAR ASSEMBLY

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



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.

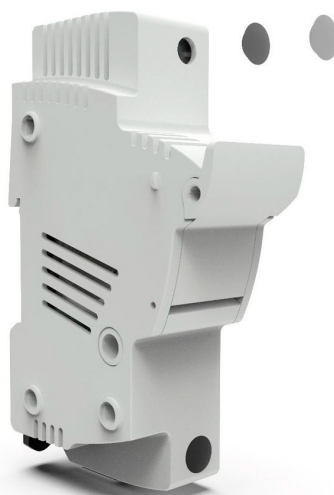


To obtain an IP20 rating with cable protection of $\varnothing \leq 6\text{mm}$, use the **special protection accessory**



SCREW'S PROTECTION ACCESSORY

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





PMX
CYLINDRICAL
fuse holders

ACCESSORIES

PMX-22 SPECIAL ACCESSORY SCREW CONNECTION



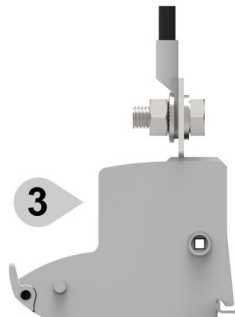
1

Mount the accessory
in the wire or busbar
(10Nm)



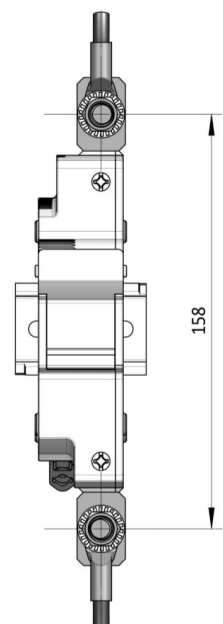
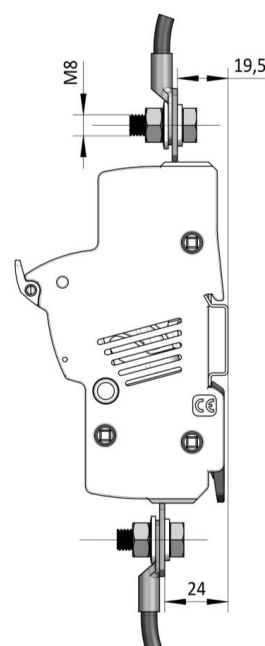
2

Wiring in the fuse holder



3

Apply tightening torque
(4Nm)





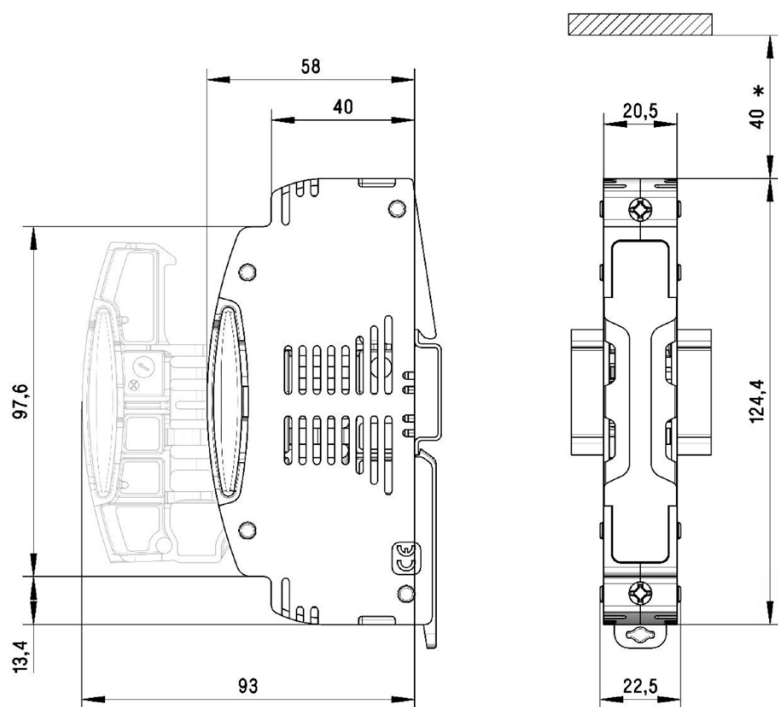
PML_e CYLINDRICAL fuse holders

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
1000V DC	32A	IP20
1500V DC		



**PATENTED
DESIGN**

DIMENSIONS



* Recommended mounting free space



10x85 position



10/14x85 position

ACCESSORIES

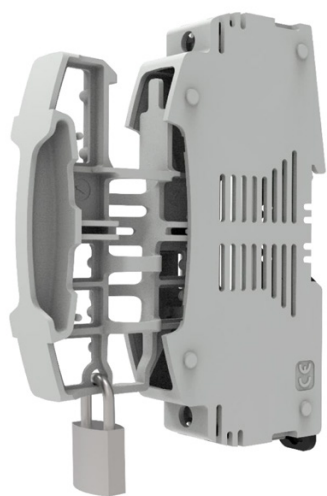
REFERENCE	DESCRIPTION	PACKING
		Uni./BOX
485052	SPECIAL IP20 PROTECTION ACCESSORY	24
485656	SCREW'S PROTECTION ACCESSORY	20



PML_e CYLINDRICAL fuse holders ACCESSORIES

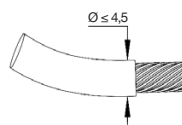
LOCK OF THE FUSE HOLDER

Systems to avoid the operation and connection



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 $\varnothing \leq 4.5\text{mm}$, use the special protection accessory



SCREW'S PROTECTION ACCESSORY

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

Manual assembly



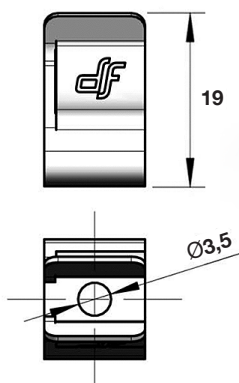
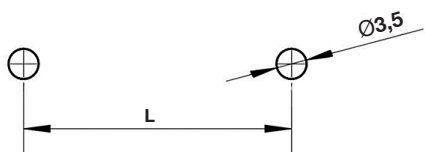


CLIP CONTACT CYLINDRICAL Ø10 fuse links

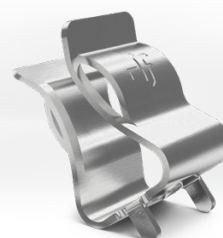
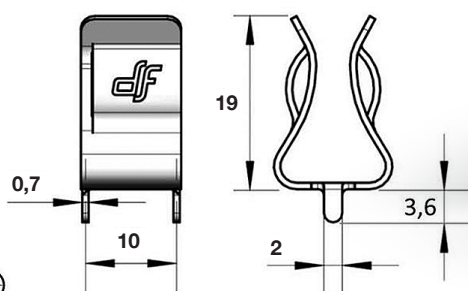
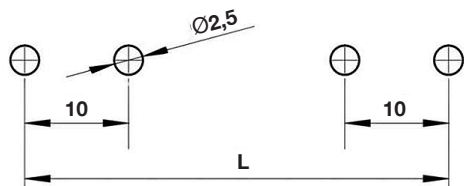
	RATED VOLTAGE	RATED CURRENT	RATED POWER DISSIPATION
UP TO	1000V DC	25A	4W
	1500V DC		

DIMENSIONS

	L (mm)
10x38	32
10x85	79,6



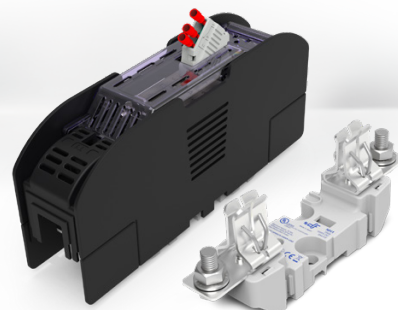
	L (mm)
10x38	42
10x85	89,6



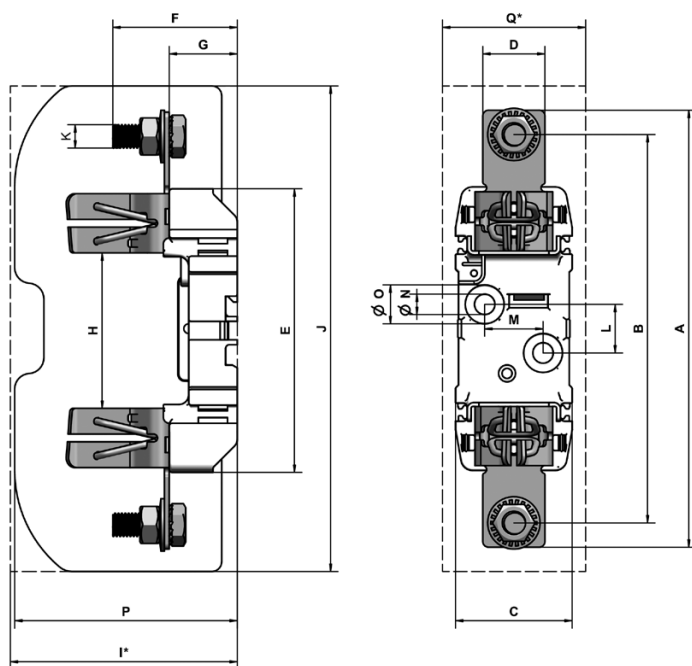


ST NH 1000V DC fuse bases

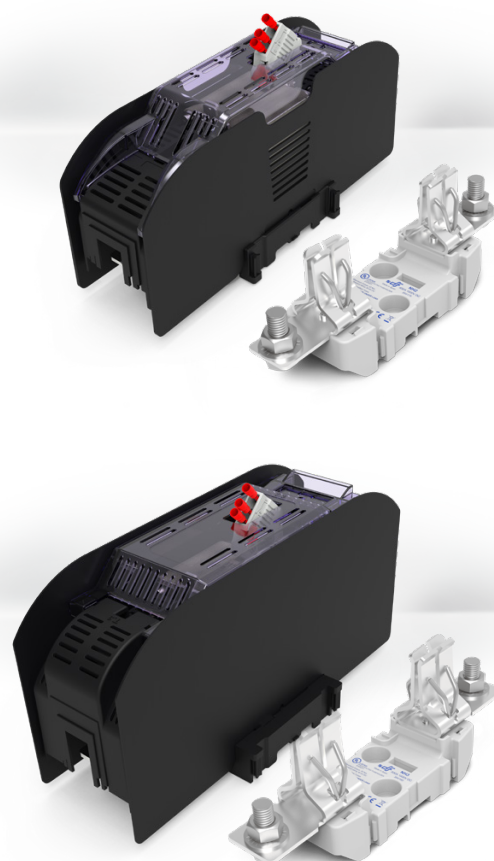
RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
1000V DC	250A 	IP00 IP20
	400A 	
	500A 	



DIMENSIONS



* with IP20 protection



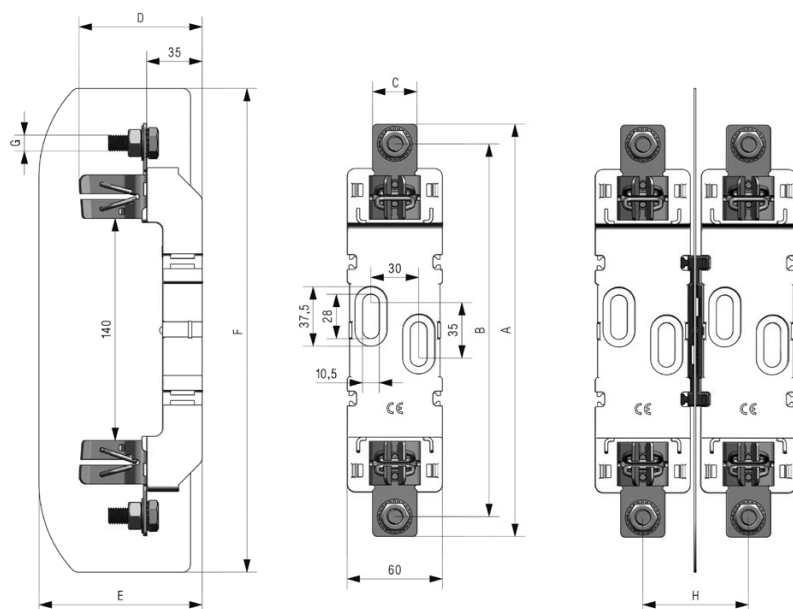
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
NH1	200	175	48	28	146	77,5	35	80	107	230	M10	25	30	10,5	20	107	54
NH2	225	200	60	32	146	88	35	80	123	250	M12	25	30	10,5	20	114,5	83
NH3	240	210	60	38	146	97	35	80	143	270	M12	25	30	10,5	20	143	116



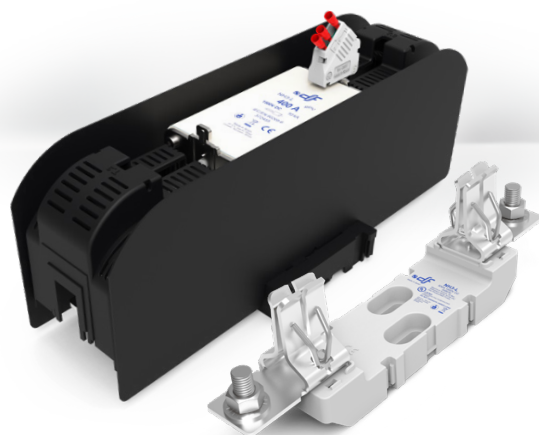
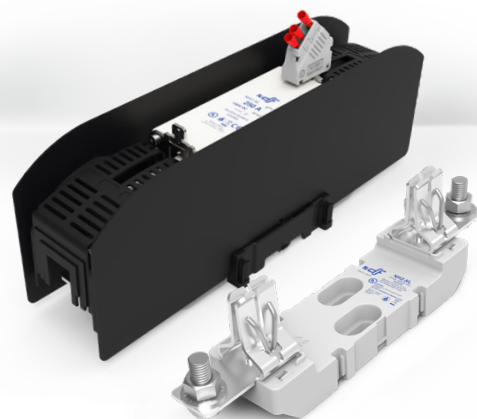
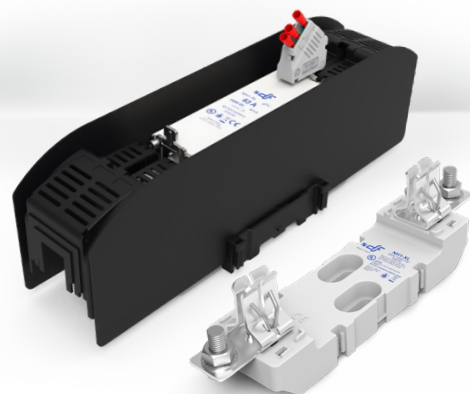
ST NH XL1500V DC fuse bases

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
1500V DC	200A 	IP00 IP20
	315A 	
	500A 	

DIMENSIONS



	A	B	C	D	E	F	G	H
NH1XL	260	235	28	77,5	103,5	305	M10	66
NH2XL	285	260	32	88	113,8	305	M12	66
NH3L	300	270	38	97	127,5	326	M12	82

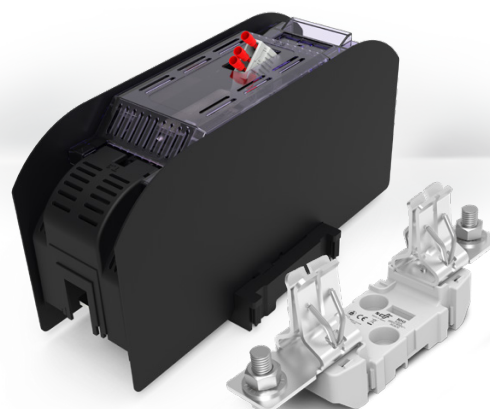
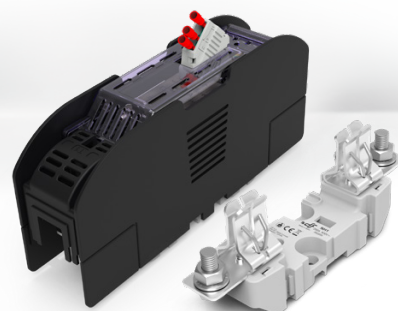
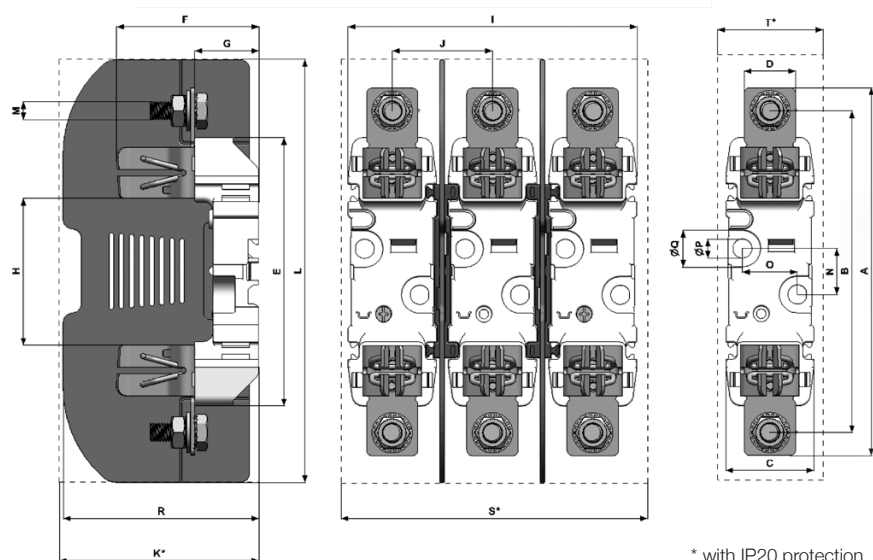




ST NH 690V/800V AC fuse bases

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
690V/800V AC	250A 	IP00 IP20
	630A 	

DIMENSIONS

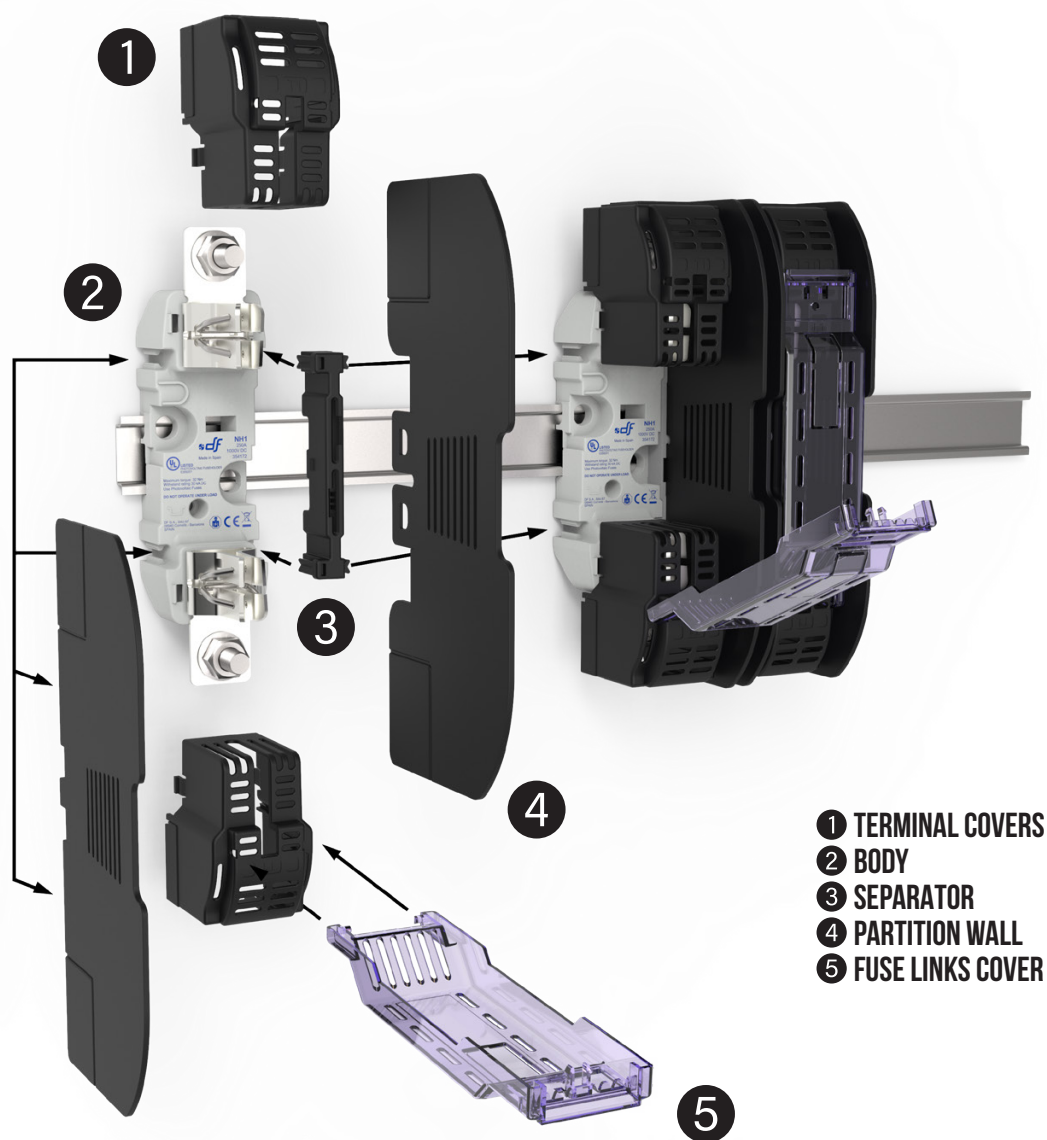


	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
NH1	200	175	48	28	146	77,5	35	80	169,5	60,8	107	230	M10	25	30	10,5	20	107	175	54
NH3	240	210	60	38	146	97	35	80	224	82	143	270	M12	25	30	10,5	20	143	281	116



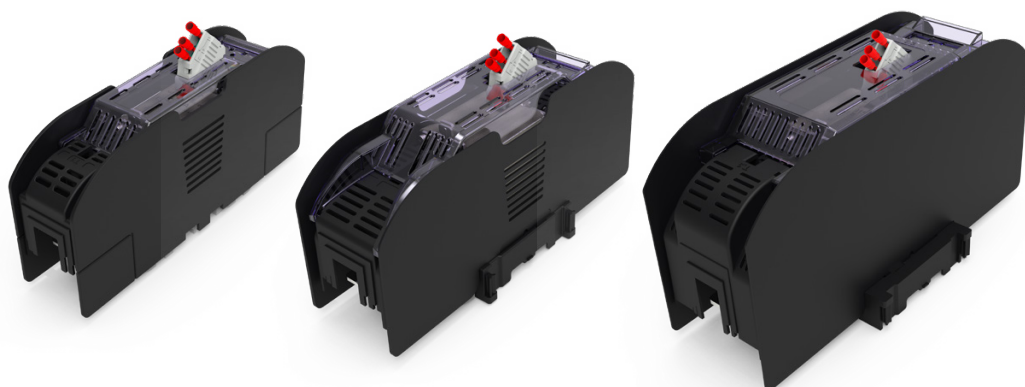
ST
NH 1000V DC
fuse bases

ACCESSORIES ASSEMBLY



- ① TERMINAL COVERS
- ② BODY
- ③ SEPARATOR
- ④ PARTITION WALL
- ⑤ FUSE LINKS COVER

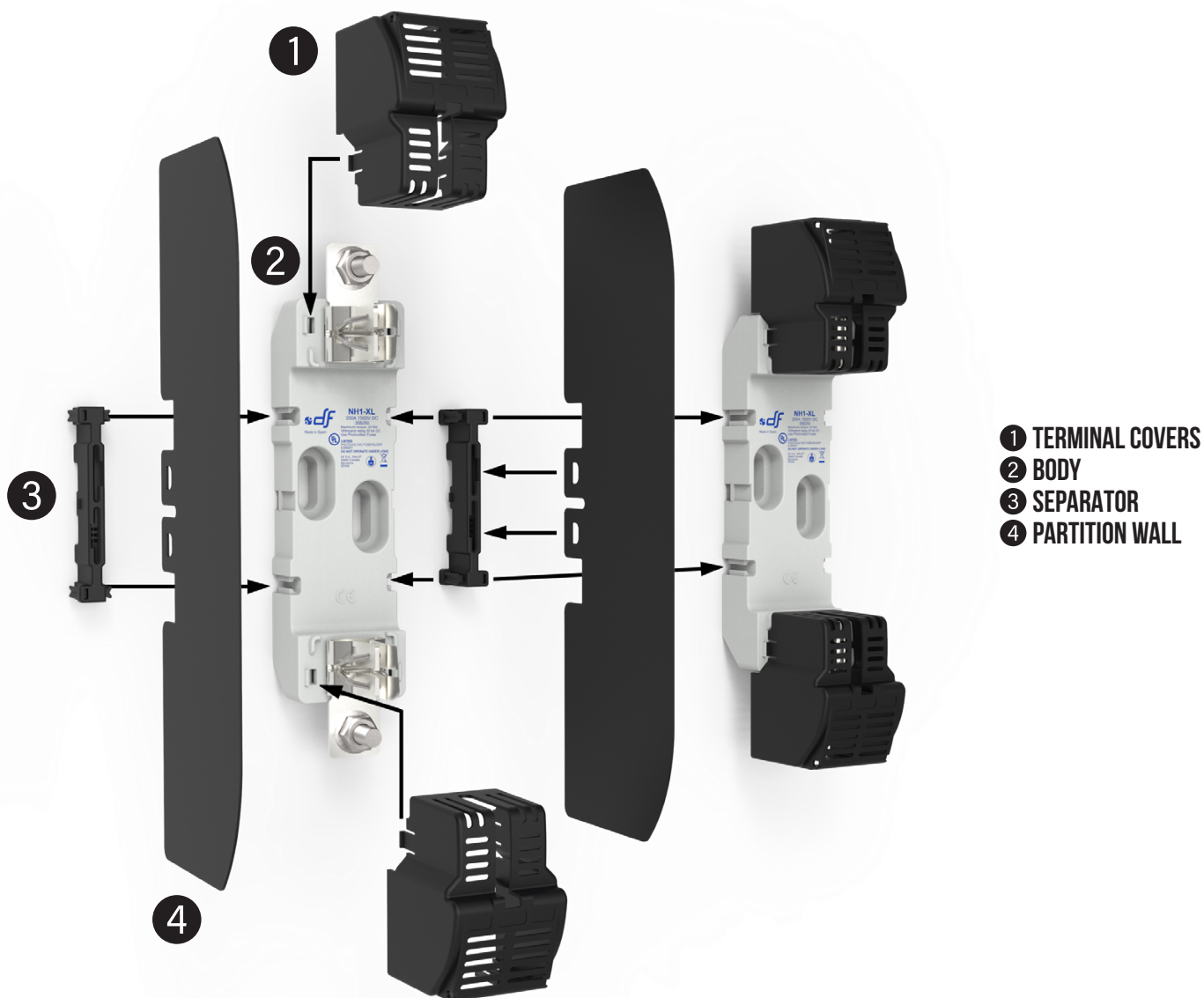
The fuseholder allows using simultaneously a microswitch for NH fuse links and IP20 protection accessories.



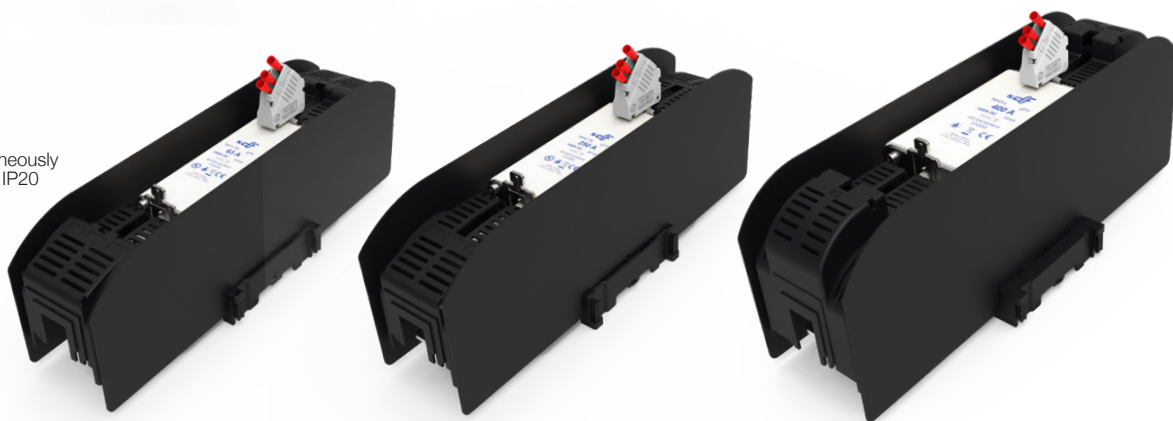


ST
NH XL1500V DC
fuse bases

ACCESSORIES ASSEMBLY

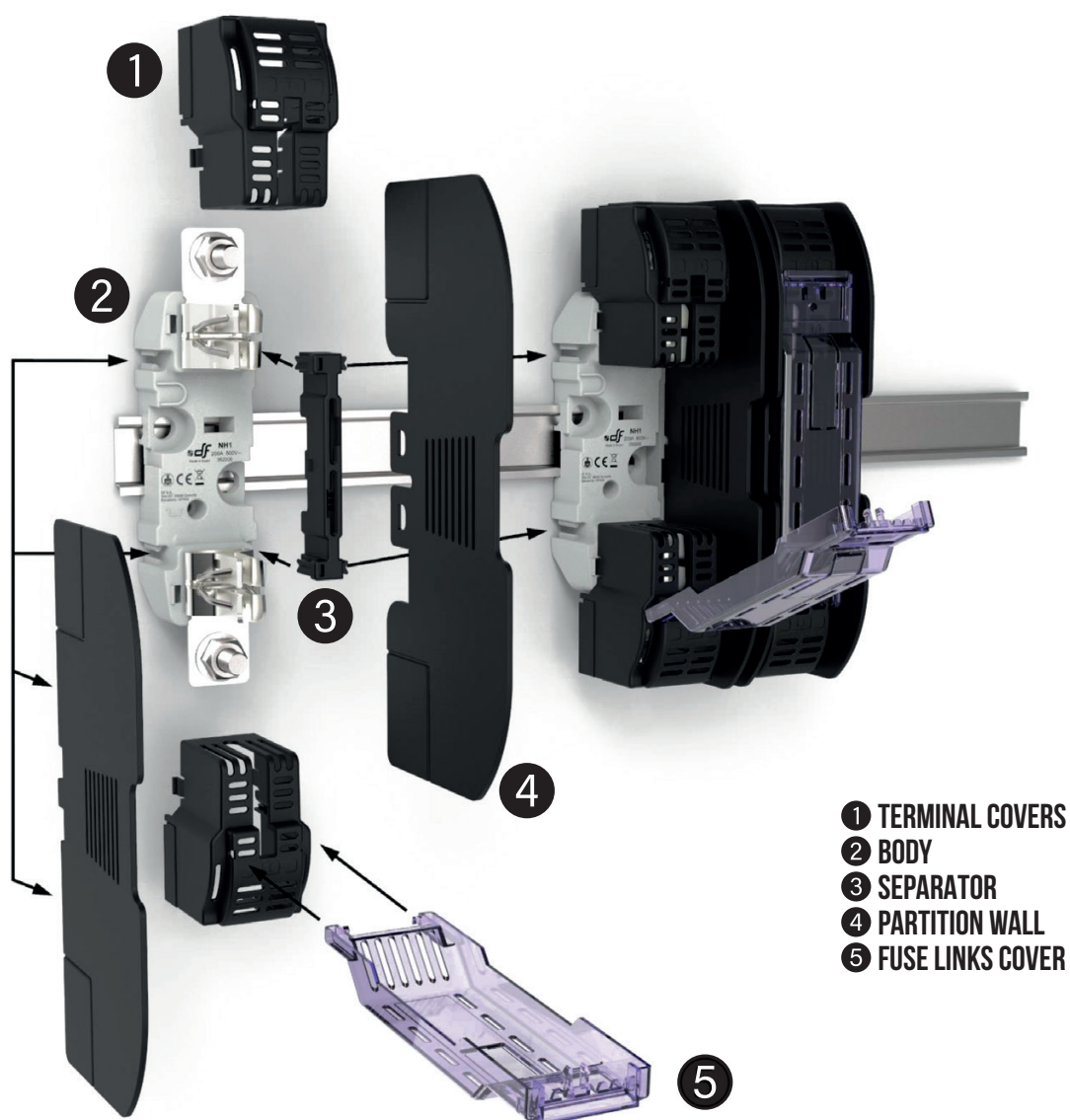


The fuseholder allows using simultaneously a microswitch for NH fuse links and IP20 protection accessories.



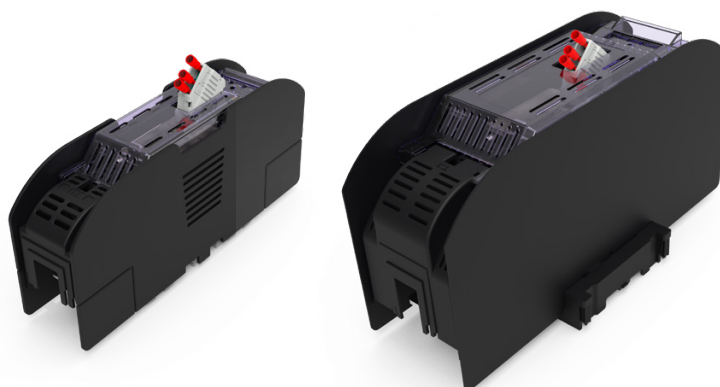
ST **NH1** **NH3** | **ST**
NH 690V/800V AC
fuse bases

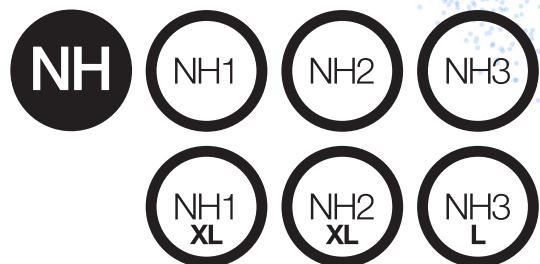
ACCESSORIES ASSEMBLY



- ① TERMINAL COVERS
- ② BODY
- ③ SEPARATOR
- ④ PARTITION WALL
- ⑤ FUSE LINKS COVER

The fuseholder allows using simultaneously a microswitch for NH fuse links and IP20 protection accessories.



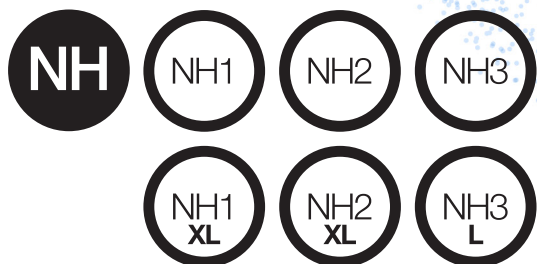


FUSE PULLERS

NH 1000V DC
NH XL 1500V DC
accessories

DIMENSIONS

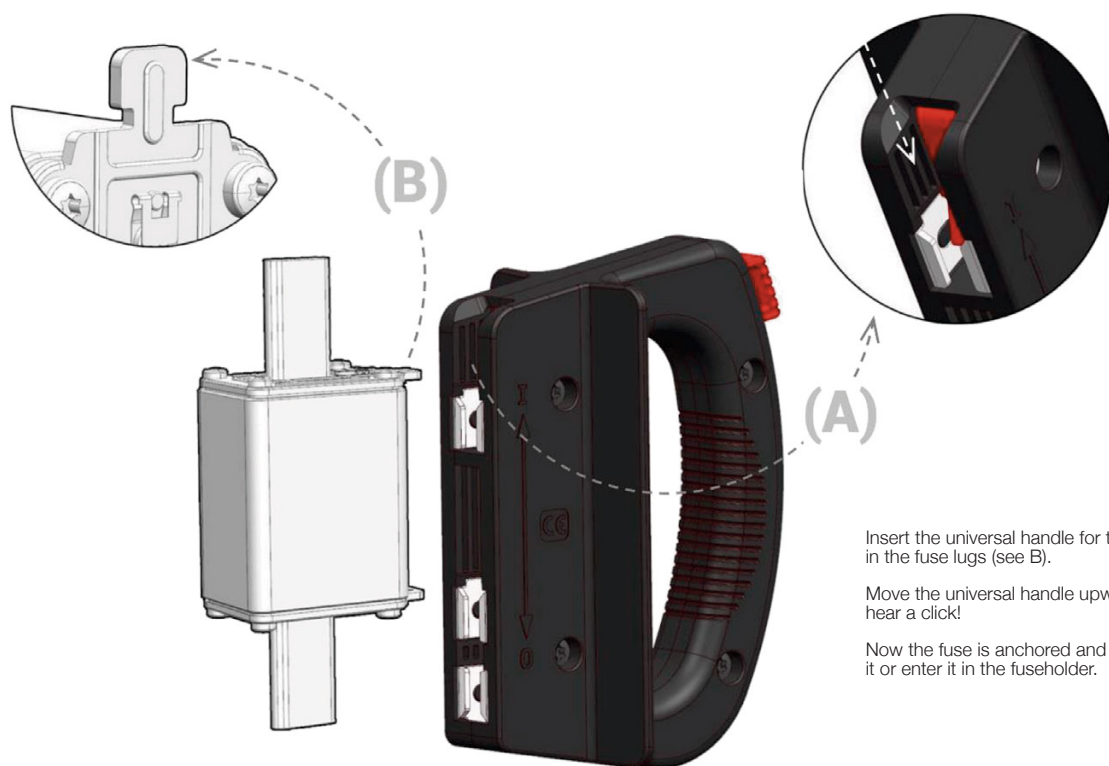




FUSE PULLERS

NH 1000V DC
NH XL 1500V DC
accessories

INSTRUCTIONS

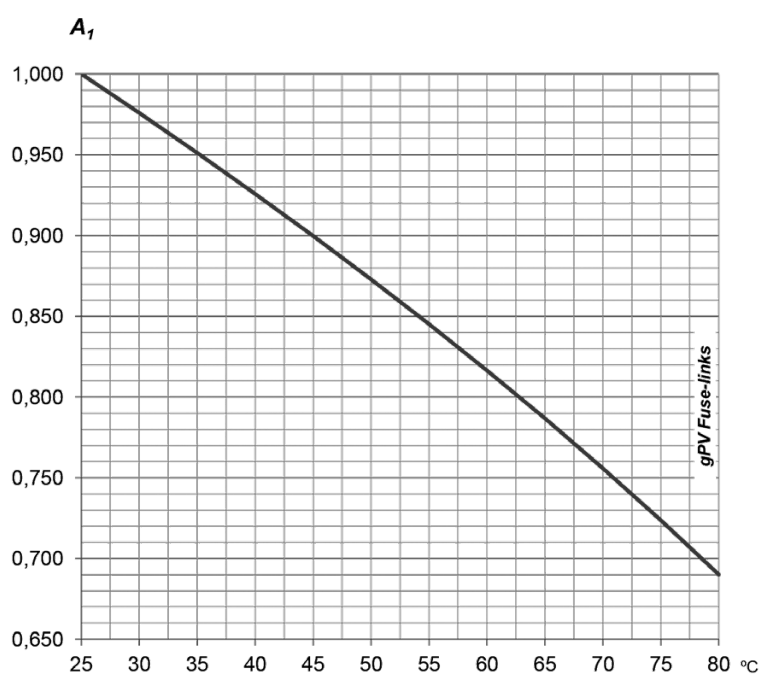


To remove the universal handle from the fuse, press the red button and move the handle downward.

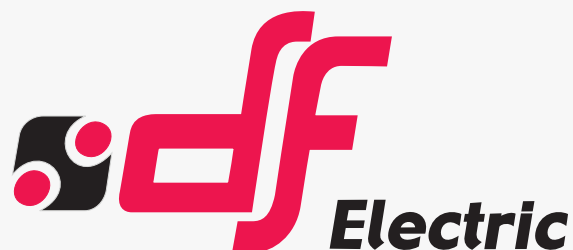
CYL | **gPV**
CYLINDRICAL
fuse links

NH | **gPV**
NH
fuse links

AMBIENT TEMPERATURE DERATING FACTOR



ta (°C)	A1
25	1,00
30	0,98
35	0,95
40	0,93
45	0,90
50	0,87
55	0,84
60	0,82
65	0,79
70	0,76
75	0,72
80	0,69



PROTECTING THE WORLD

HEAD OFFICE AND FACTORY

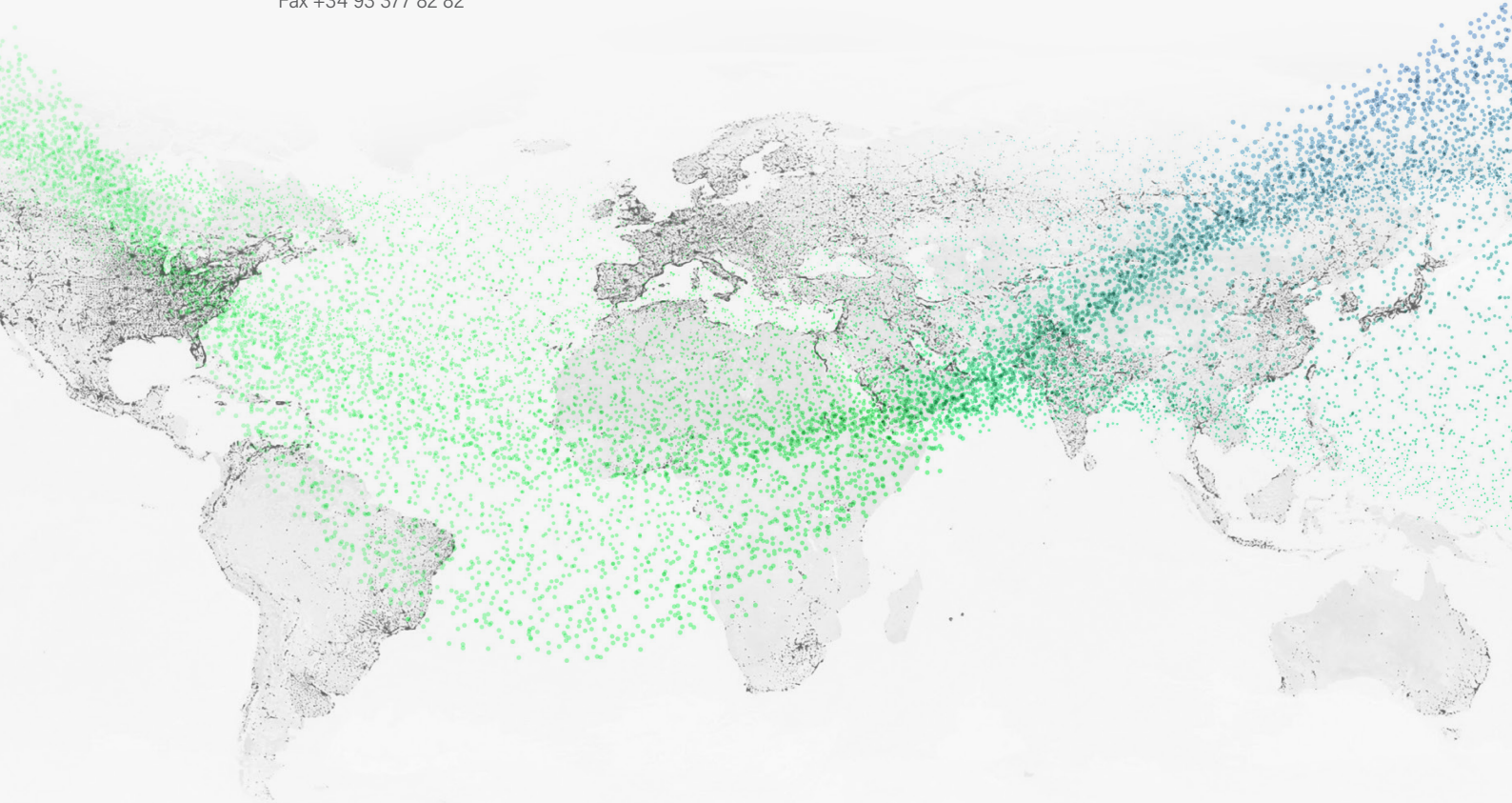
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To prevent electrical hazards, carry out the installation without voltage.



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



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