



PHOTOVOLTAIC

FUSE-LINKS & FUSE HOLDERS FOR PHOTOVOLTAIC APPLICATIONS



04

**gPV
CYL**
fuse links



06

**gPV
NH**
1000V DC
fuse links



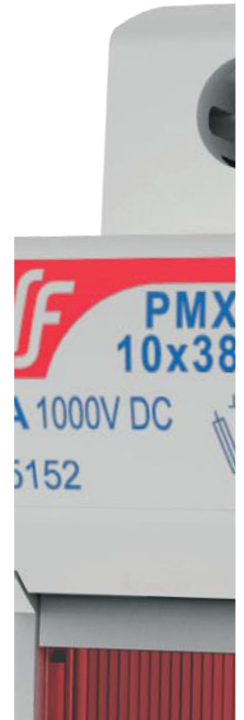
08

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



10

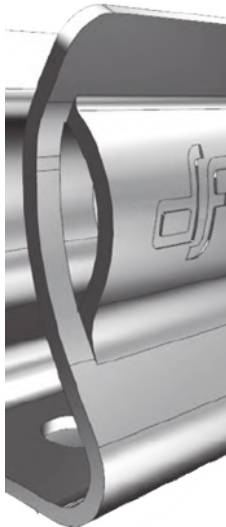
**gG/GL
NH**
800V AC
fuse links



11

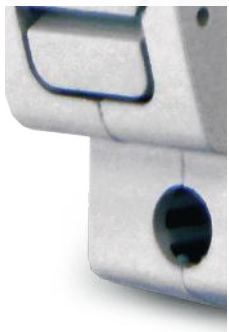
**PMX
CYL**
fuse holders





12

**PML
CYL**
fuse holders



13

**CLIP
CONTACT
CYL**
Ø10 fuse links



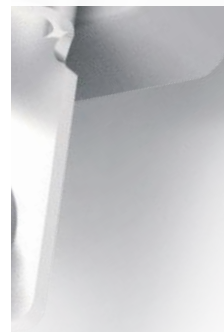
14

**ST
NH**
1000V DC
fuse bases



15

**ST
NH XL**
1500V DC
fuse bases



16

**ST
NH**
800V AC
fuse bases



CYL | **gPV**
CYLINDRICAL
fuse links

gPV 10x38 and 14x51 cylindrical fuse-links from DF Electric 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 fuseholders.



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 43

COMPATIBLE PMX FUSE HOLDERS

PAG 11

COMPATIBLE CLIP CONTACT Ø 10 FUSE-LINKS

PAG 13

gPV CYLINDRICAL fuse links

gPV 10x85 & 10/14x85 cylindrical fuse-links from DF Electric 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 fuseholders.



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



U **1500V DC**

BREAKING CAPACITY **10kA**

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



492262

STANDARDS

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

DIMENSIONS

PAG 20
PAG 21

t-I CHARACTERISTICS

PAG 20
PAG 21

AMBIENT TEMPERATURE DERATING FACTOR

PAG 43

COMPATIBLE PML FUSE HOLDERS

PAG 12

COMPATIBLE CLIP CONTACT Ø 10 FUSE-LINKS

PAG 13

NH gPV NH 1000V DC fuse links

NH gPV fuse-links for photovoltaic installations from DF Electric 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**

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**

200	373350	1/15
250	373360	1/15



373350

NH3

U **1000V DC**

BREAKING CAPACITY **30kA**

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 22

t-I CHARACTERISTICS

PAG 23

AMBIENT TEMPERATURE DERATING FACTOR

PAG 43

COMPATIBLE ST NH 1000V AC BASES

PAG 14

NH gPV NH 1000V DC fuse links

NH gPV fuse-links for photovoltaic installations from DF Electric 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.



**NH1
B**

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



**NH2
B**

U **1000V DC**

BREAKING CAPACITY **30kA**

CONTACTS **BOLTED BLADE**

200	373350 B	1/15
250	373360 B	1/15



**NH3
B**

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



STANDARDS

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

DIMENSIONS

PAG 22

t-I CHARACTERISTICS

PAG 23

AMBIENT TEMPERATURE DERATING FACTOR

PAG 43

COMPATIBLE ST NH 1000V AC BASES

PAG 14

NH gPV NH XL 1500V 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 poer losses values to get a good efficiency.

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



NH1 XL

U **1500V DC**

BREAKING CAPACITY **30kA**

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

NH2 XL

U **1500V DC**

BREAKING CAPACITY **30kA**

STANDARDS

200	372350	1/10
250	372360	1/10



372360

NH3 L

U **1500V DC**

BREAKING CAPACITY **30kA**

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



372455

STANDARDS

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

DIMENSIONS

PAG 24

t-I CHARACTERISTICS

PAG 25

**AMBIENT TEMPERATURE
DERATING FACTOR**

PAG 43

**COMPATIBLE
ST NH 1500V AC BASES**

PAG 15

NH gPV NH XL 1500V 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 poer 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 **30kA**

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 **30kA**

CONTACTS **BOLTED BLADE**

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



372360B



U **1500V DC**

BREAKING CAPACITY **30kA**

CONTACTS **BOLTED BLADE**

315	372445 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 24

t-I CHARACTERISTICS

PAG 25

AMBIENT TEMPERATURE DERATING FACTOR

PAG 43

COMPATIBLE ST NH 1500V AC BASES

PAG 15



gG / gL
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	385210	3/30
35	385220	3/30
40	385225	3/30
50	385230	3/30
63	385235	3/30



385235



U **800V AC**

BREAKING CAPACITY **80kA**

80	385240	3/30
100	385245	3/30
125	385250	3/30
160	385255	3/30



385255



U **800V AC**

BREAKING CAPACITY **80kA**

200	385425	3/18
250	385435	3/18
315	385445	3/18



385445

STANDARDS

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

DIMENSIONS

PAG 26

t-I CHARACTERISTICS

PAG 27

AMBIENT TEMPERATURE DERATING FACTOR

PAG 43

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 technologic 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

STANDARDS

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

DIMENSIONS

PAG 28
PAG 29

ACCESSORIES

PAG 30
PAG 31

COMPATIBLE gPV CYL FUSE LINKS

PAG 04

PML

**PML
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.



U 1500V DC

In 32A

 STANDARDS

POLES	MODULES (mm)	REFERENCE	PACKING Uni /BOX
SINGLE-POLE	24	485701	6/84



PML
 10x85
 10/14x85
 1500V DC
 welcome
 to the future



10x85 position



10/14x85 position

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

DIMENSIONS
 PAG 32

ACCESSORIES
 PAG 33

**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).



FIXATION **SCREW**

U UP TO **1500V AC/DC**

In **25A**

Pd max
(W)

4

REFERENCE

482001

PACKING

Uni /BOX

50/200



FIXATION **PCB**

U UP TO **1500V AC/DC**

In **25A**

4

482002

50/200



DIMENSIONS

PAG 34

**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).

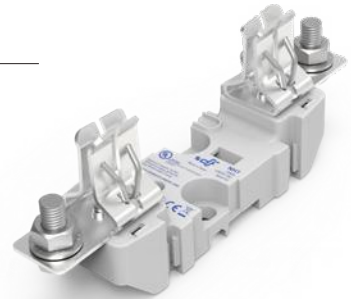


U **1000V DC**

In **250A**


STANDARDS 

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

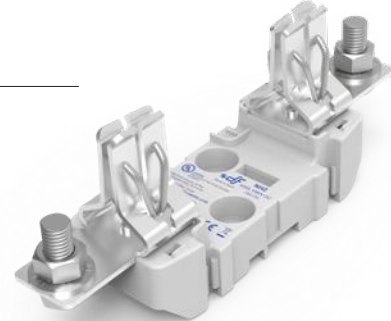


U **1000V DC**

In **400A**

STANDARDS 

SINGLE-POLE	DIN RAIL/SCREW	SCREW	354175 	1
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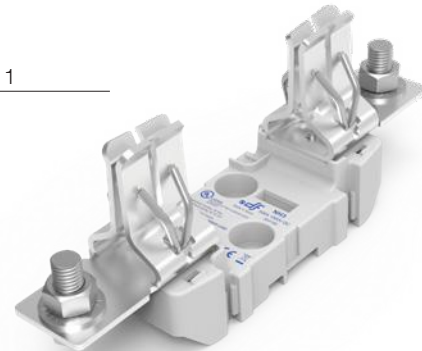


U **1000V DC**

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
IEC/EN 60269-6

DIMENSIONS

PAG 35

ACCESSORIES

PAG 17

ACCESSORIES ASSEMBLY

PAG 38

COMPATIBLE gPV NH 1000V DC FUSE LINKS

PAG 06



ST NH XL 1500V 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).

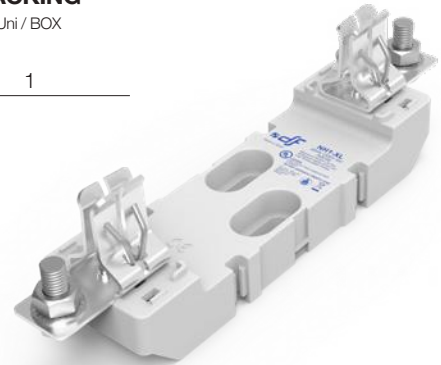


U **1500V DC**

In **200A**

STANDARDS

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

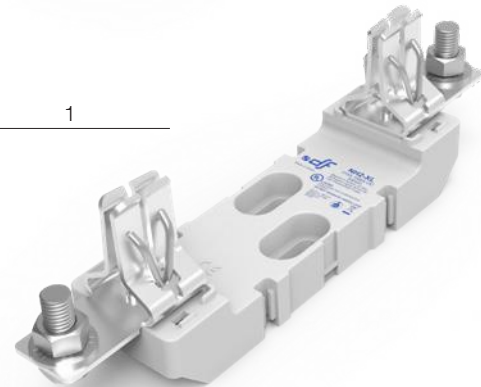


U **1500V DC**

In **315A**

STANDARDS

SINGLE-POLE	SCREW	SCREW	358400	1
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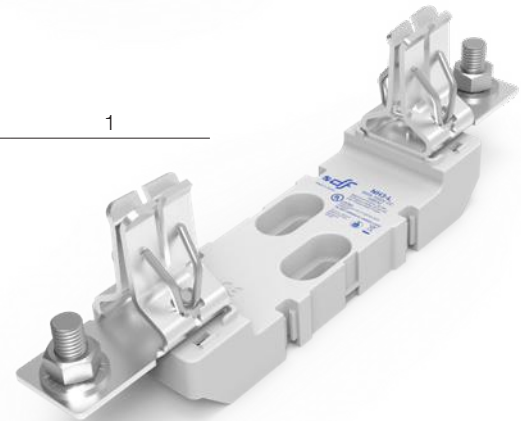


U **1500V DC**

In **500A**

STANDARDS

SINGLE-POLE	SCREW	SCREW	358630	1
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STANDARDS

IEC/EN 60269-1 UL 4248-1
IEC/EN 60269-2 UL 4248-19
IEC/EN 60269-6

DIMENSIONS

PAG 36

ACCESSORIES

PAG 17

ACCESSORIES ASSEMBLY

PAG 39

COMPATIBLE gPV XL NH 1500V DC FUSE LINKS

PAG 08



ST NH 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.

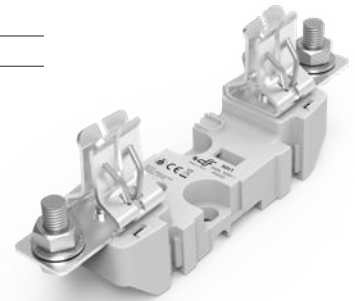
Contacts with double spring in order to obtain an optimum operation. Wide range of accessories that enables IP20 protection index: contact covers, fuse link covers and partition walls. Multi-pole units can be made with connection accessories.

Manufactured according IEC, EN and DIN standards.



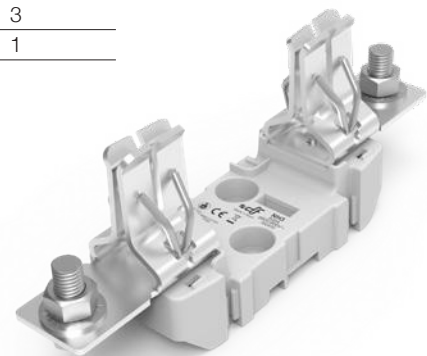
U **800V AC**
In **200A**

POLES	FIXING	CONNECTION	REFERENCE	PACKING Uni / BOX
SINGLE-POLE	DIN RAIL / SCREW	SCREW	352200	3
THREE-POLE	DIN RAIL / SCREW	SCREW	353200	1



U **800V AC**
In **630A**

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

PAG 37

ACCESSORIES

PAG 17

ACCESSORIES ASSEMBLY

PAG 40

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



326250

SEPARATORS FOR MULTIPOLE UNITS

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



325250

TERMINAL COVERS

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



325002

FUSE LINKS COVERS ONLY FOR 800/1000V DC

NH1	325018	3
NH2	325020	3
NH3	325025	3



325020

MICROSWITCHES

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

DIMENSIONS | INSTRUCTIONS
PAG 41 | PAG 42

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

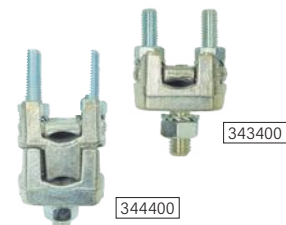


340001

340005

TERMINALS

SIZE	CROSS SECTION (mm ²)	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



344400

343400

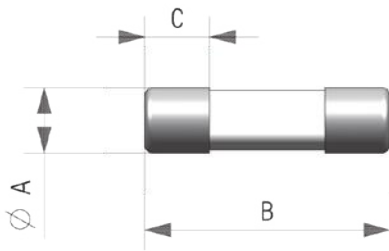


gPV
CYLINDRICAL
fuse links

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

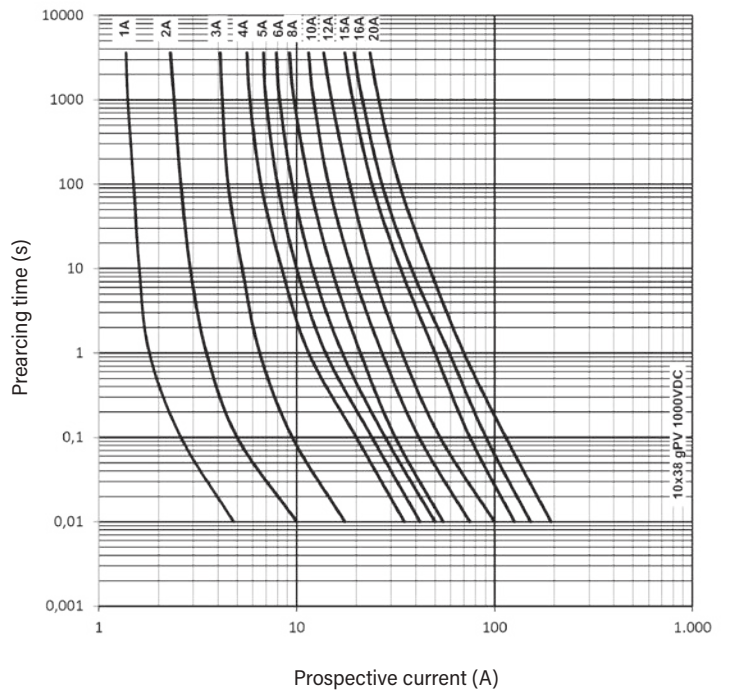


DIMENSIONS



A	B	C
10,3	38	10

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

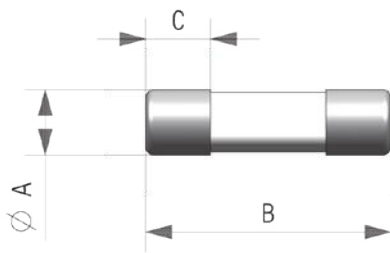


gPV CYLINDRICAL fuse links

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

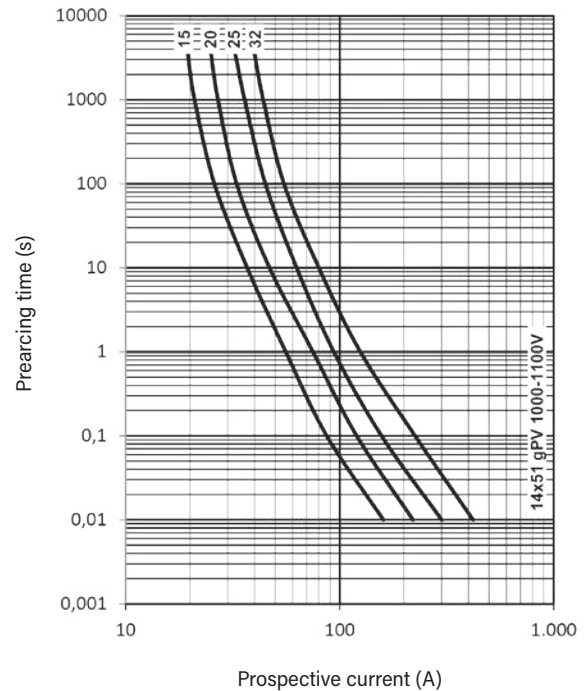


DIMENSIONS



A	B	C
14,3	51	13

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)	
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

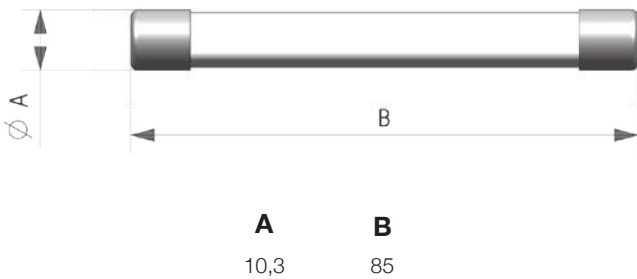
10x85

gPV
CYLINDRICAL
fuse links

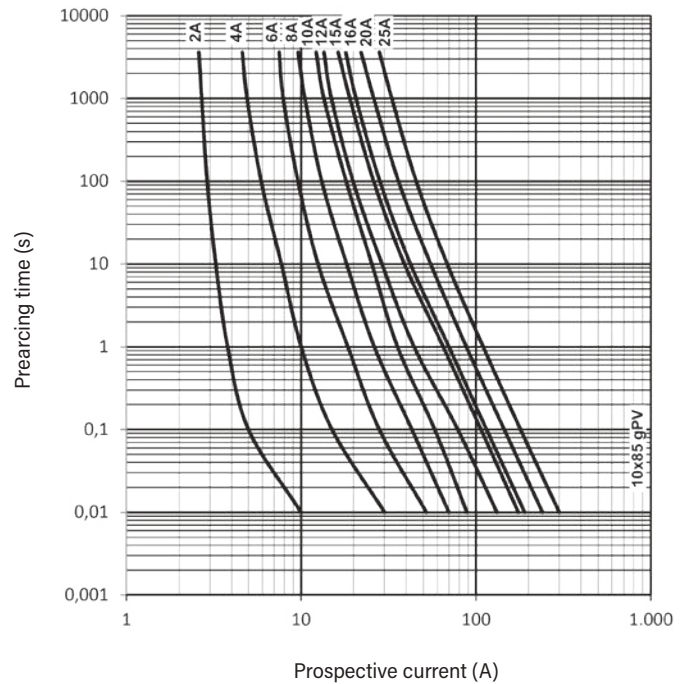
RATED VOLTAGE	RATED CURRENT	BREAKING CAPACITY
1500V DC	2A...16A	30kA
1200V DC	20A 25A	10kA



DIMENSIONS



t-I CHARACTERISTICS



POWER DISSIPATION

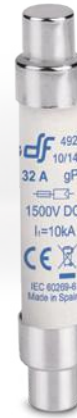
	RATED VOLTAGE (U)	RATED CURRENT	REFERENCE	POWER DISSIPATION	POWER DISSIPATION	PREARcing I ² t	OPERATING I ² t
		(A)		(W @ 0,7 I _n)	(W @ I _n)	(A ² s)	(A ² s)
U	1500V DC	2	492202	1,28	3,2	0,8	1,1
		4	492205	1,16	2,9	13	17
		6	492210	1,04	2,6	65	84
		8	492215	1,13	2,8	175	225
		10	492220	1,36	3,4	44	72
		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	RATED CURRENT	BREAKING CAPACITY
1500V DC	20A...32A	10kA

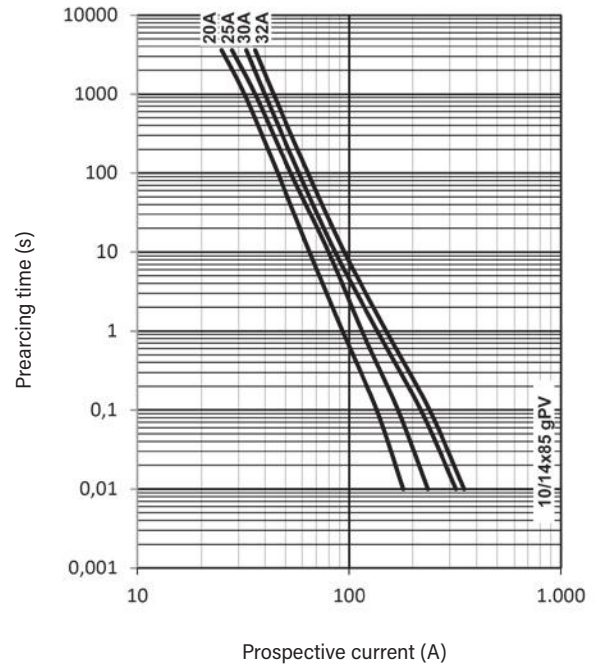


DIMENSIONS



A	B	C
10,3	85	14,3

t-I CHARACTERISTICS



POWER DISSIPATION

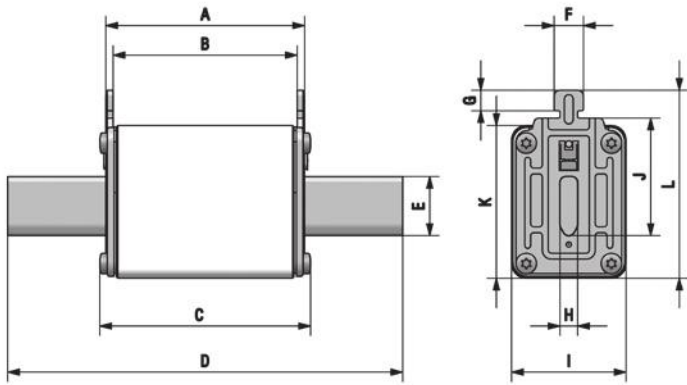
RATED CURRENT (A)	REFERENCE	POWER DISSIPATION (W @ 0,7 In)	POWER DISSIPATION (W @ In)	PREARCIING I ² t (A ² s)	OPERATING I ² t (A ² s)
20	492250	2,17	5,44	67	221
25	492255	2,46	6,22	136	452
30	492260	2,66	6,70	220	730
32	492262	3,00	8,00	267	885



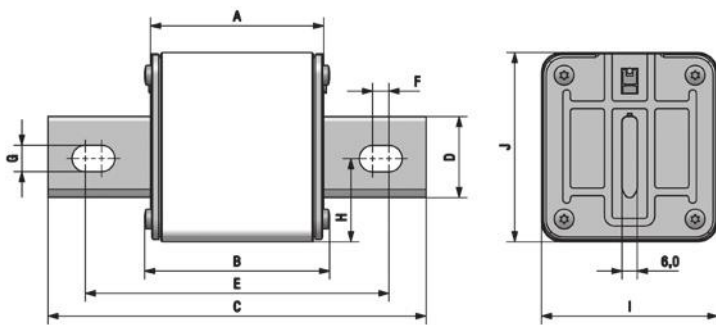
gPV
NH 1000V DC
fuse links

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

DIMENSIONS



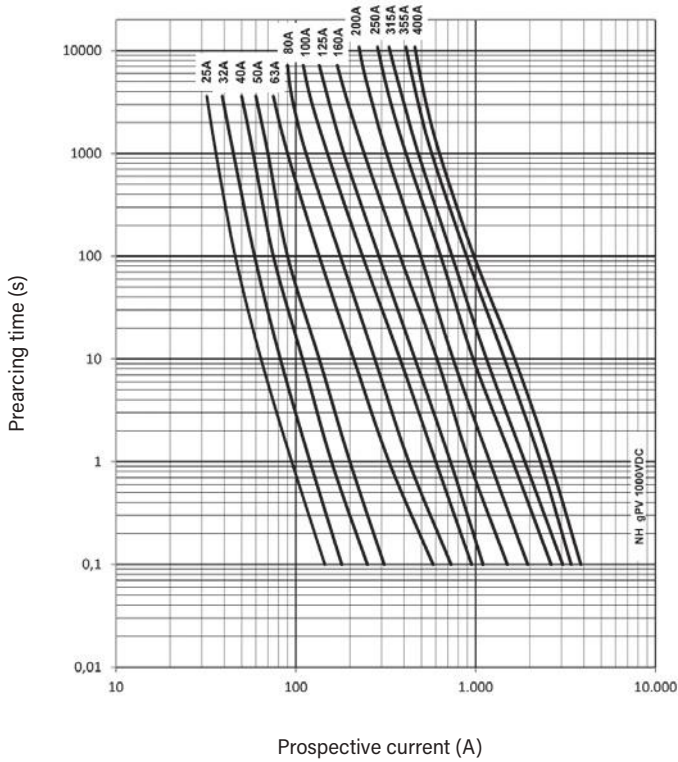
	A	B	C	D	E	F	G	H	I	J	K	L
NH1	68	62	71,5	135	20	10	9,5	6	39	40	52	64
NH2	68	62	71,5	150	25	10	9,5	6	53	48	60	72
NH3	68	62	73	150	32	10	9,5	6	70	60	75	87






	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

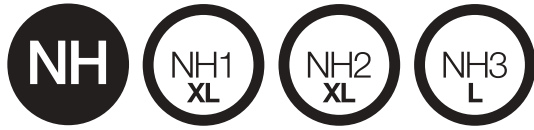


t-I CHARACTERISTICS



POWER DISSIPATION

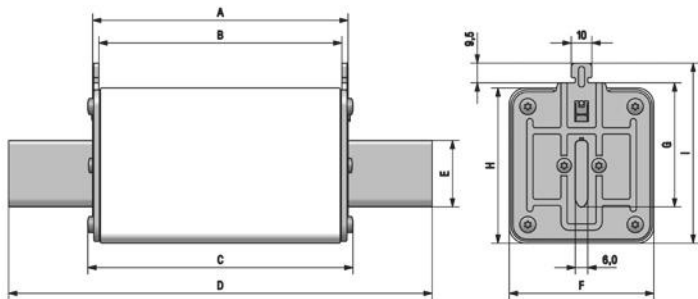
		RATED CURRENT	REFERENCE	POWER DISSIPATION	POWER DISSIPATION	PREARcing I^2t	OPERATING I^2t
		(A)		(W @ 0,7 In)	(W @ In)	(A ² s)	(A ² s)
		25	373210 373210 B	5,2	12,5	62	94
		32	373215 373215 B	6,3	15,5	122	184
		40	373225 373225 B	6,7	16,6	302	454
		50	373230 373230 B	7,5	18	562	844
		63	373235 373235 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	
		200	373350 373350 B	11,4	28,0	18.700	36.400
		250	373360 373360 B	13,0	33,3	36.800	71.500
		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



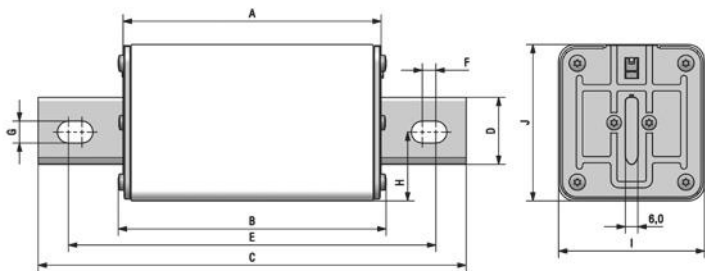
gPV
NH XL 1500V DC
fuse links

RATED VOLTAGE 1500V DC
RATED CURRENT 50A...400A
BREAKING CAPACITY 30kA

DIMENSIONS



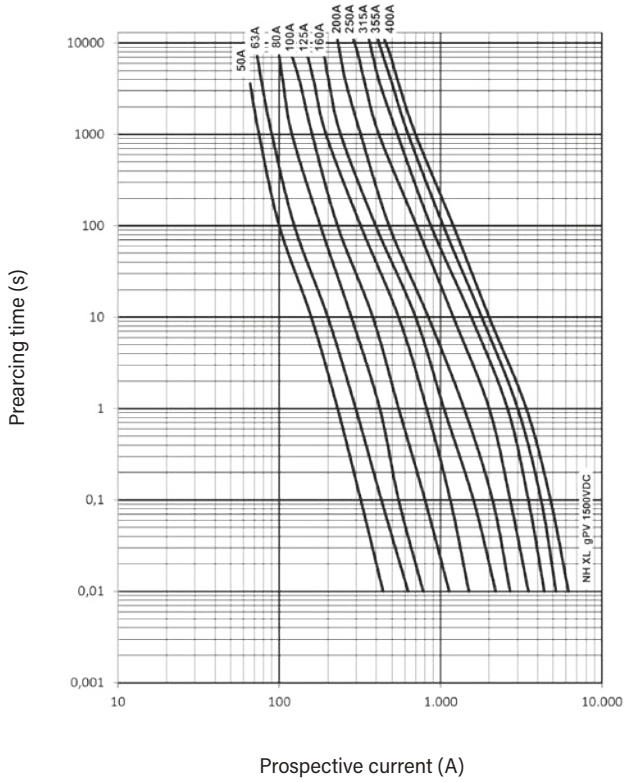
	A	B	C	D	E	F	G	H	I
NH1XL	126	120	129	191	20	39	40	52,5	64,5
NH2XL	122,6	117,6	126,7	205	25	53	48	60,5	72
NH3L	123,6	117,6	128,3	205	32	70	60	75	87






	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

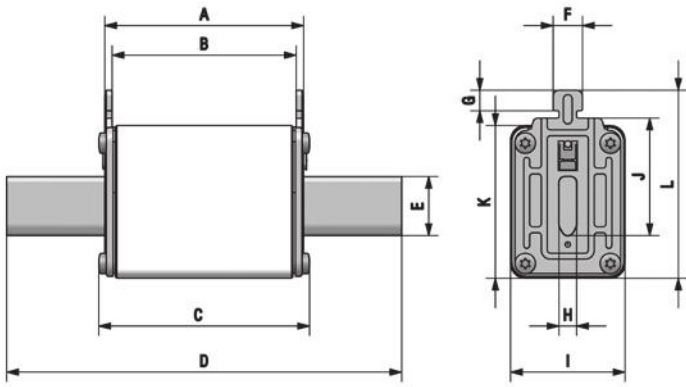
	RATED CURRENT	REFERENCE		POWER DISSIPATION	POWER DISSIPATION	PREARcing I ² t	OPERATING I ² t
	(A)			(W @ 0,7 In)	(W @ 1n)	(A ² s)	(A ² s)
	40	372225	372225 B	6,3	15	260	490
	50	372230	372230 B	7,2	18	560	1.170
	63	372235	372235 B	7,6	19	1.160	2.460
	80	372240	372240 B	10	25	1.760	3.720
	100	372245	372245 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
	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	RATED CURRENT	BREAKING CAPACITY
800V AC	25A...315A	80kA

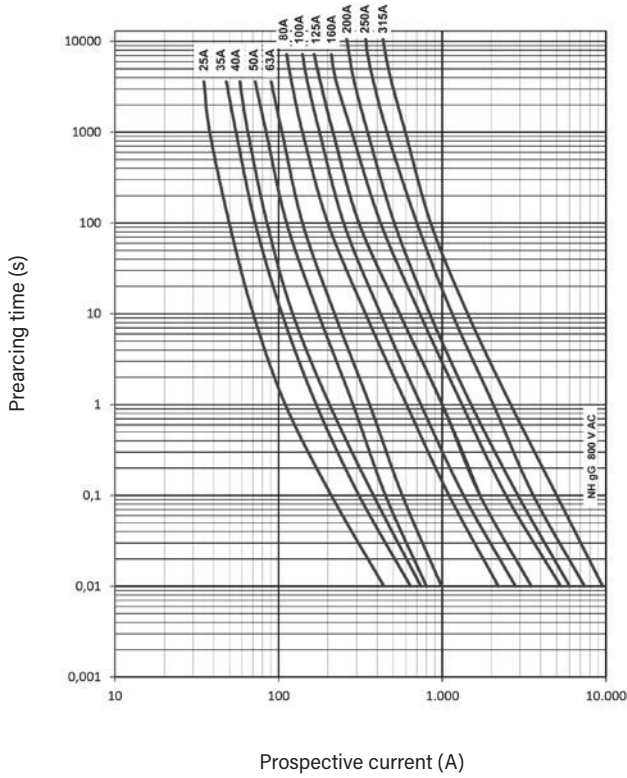
DIMENSIONS






	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



t-I CHARACTERISTICS



POWER DISSIPATION

	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
	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
	200	385425	21,0	140.150	245.000
	250	385435	25,0	241.500	422.000
	315	385445	34,5	395.000	698.000

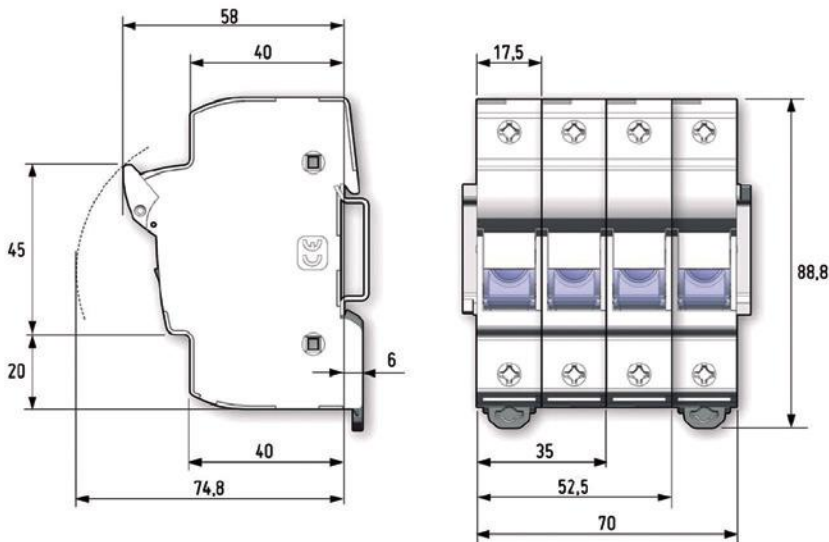


PMX CYLINDRICAL fuse holders

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



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

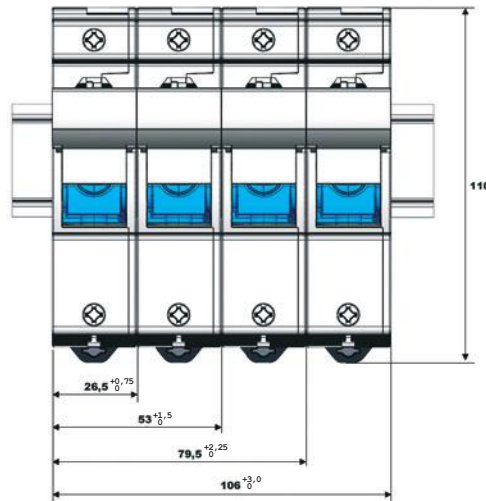
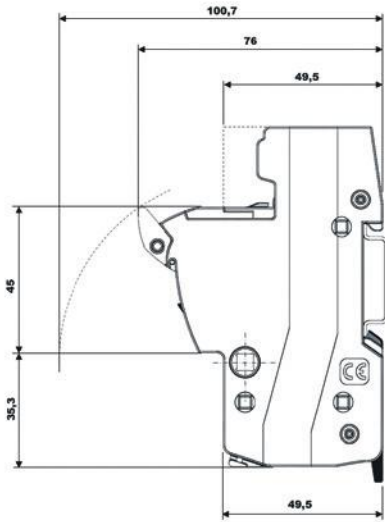


PMX CYLINDRICAL fuse holders

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



DIMENSIONS



ACCESSORIES

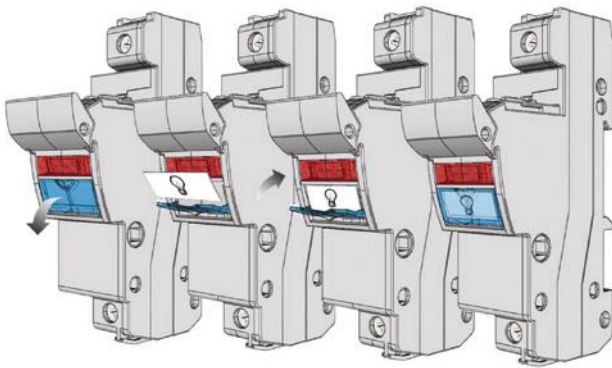
REFERENCE	DESCRIPTION	PACKING
		Uni /BOX
480005	PINS FOR MULTIPOLE ASSEMBLY	12
485356	HANDLE TIES FOR MULTIPOLE ASSEMBLY	12
485258	LOCK SUPPORT	5
485266	SPECIAL IP20 PROTECTION ACCESSORY	12
485656	SCREWS PROTECTION ACCESSORY	12
485271	SPECIAL ACCESSORY SCREW CONNECTION	12



PMX
CYLINDRICAL
fuse holders

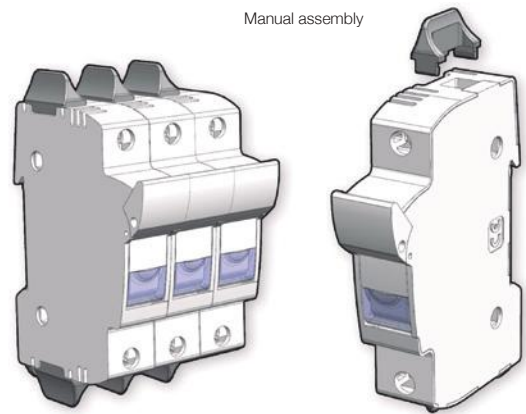
ACCESSORIES

IDENTIFICATION BY LABEL



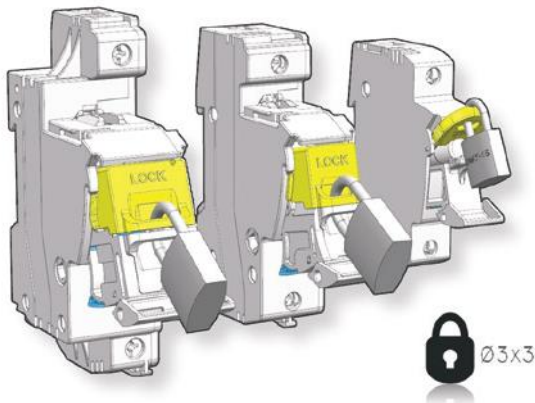
Open the label-holder part when the fuse holder is totally closed or totally open, put on the label and close.

PHASE SEPARATOR

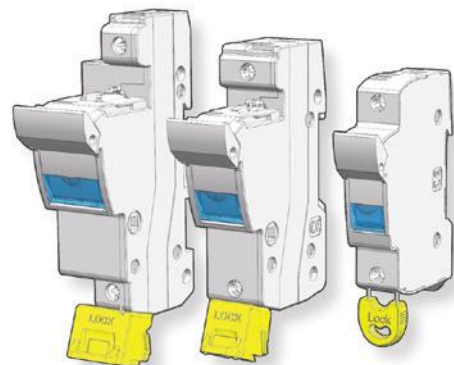


The accessory increases the distance between phases in multipolar assemblies.

LOCKING MEANS A PADLOCK

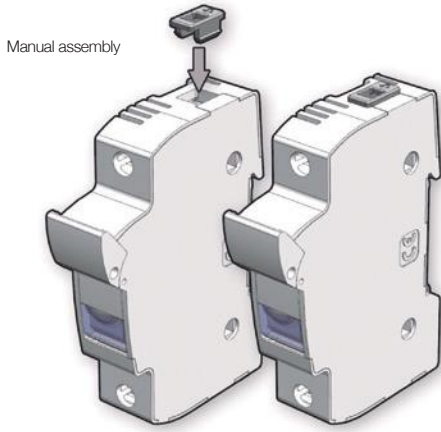


To avoid the operation and connection when the fuse holder is open, put on the accessory "Padlock support" sliding it for the guides, and covering the fuse link zone.



Introduce the padlock trough the symmetrical holes and close it.
(Is possible the use with or without fuse link)

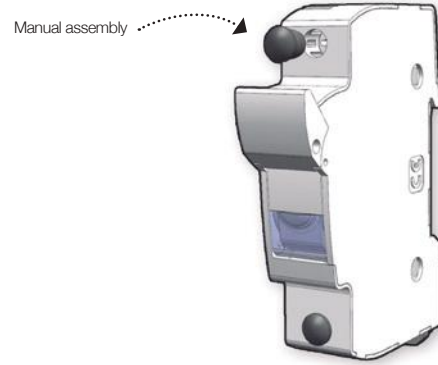
SPECIAL IP20 PROTECTION



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

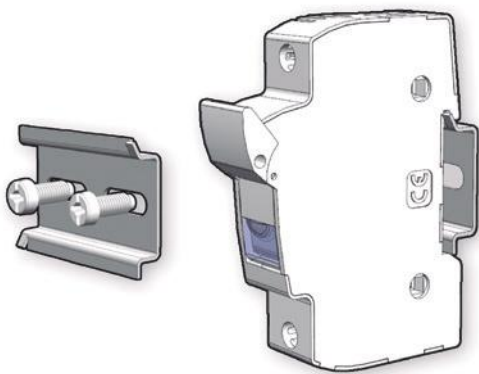
	SECTION FLEXIBLE WIRE (mm ²)	SECTION SOLID WIRE (mm ²)	LENGTH (mm)
8x32	≤6	≤10	10
10x38	≤6	≤10	10
14x51	≤10	≤16	14
22x58	≤16	≤25	18

SCREW PROTECTION



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

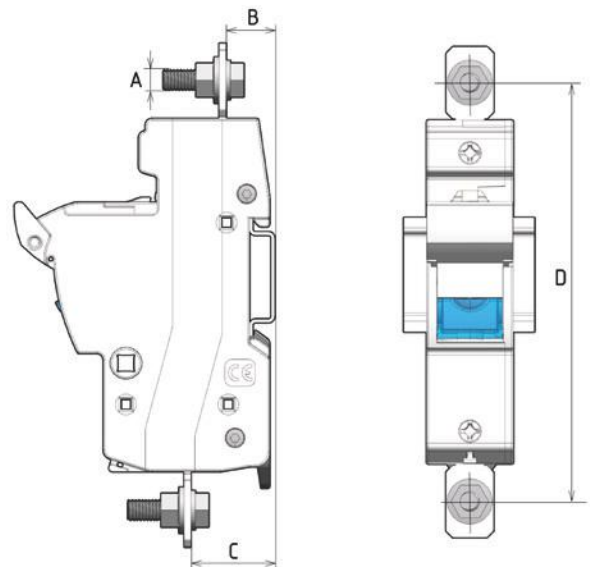
SCREW FIXATION



First mount the accessory with screws, then mount the fuseholder. (there are available different accessories depending the number of the fuseholder)

REFERENCE	SIZE (mm)
485650	25
485651	50
485652	75
485653	100
485654	125
485655	175

ACCESSORY SCREW CONNECTION



REFERENCE	A (mm)	B (mm)	C (mm)	D (mm)
485271	M6	14,5	25	128,5



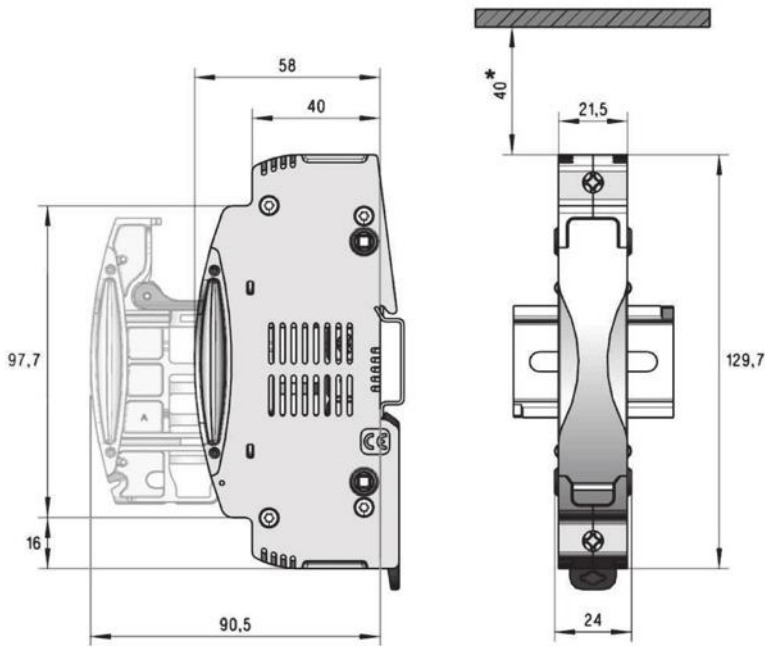
PML CYLINDRICAL fuse holders

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



**PATENTED
DESIGN**

DIMENSIONS



* Recommended minimum mounting free space



10x85 position

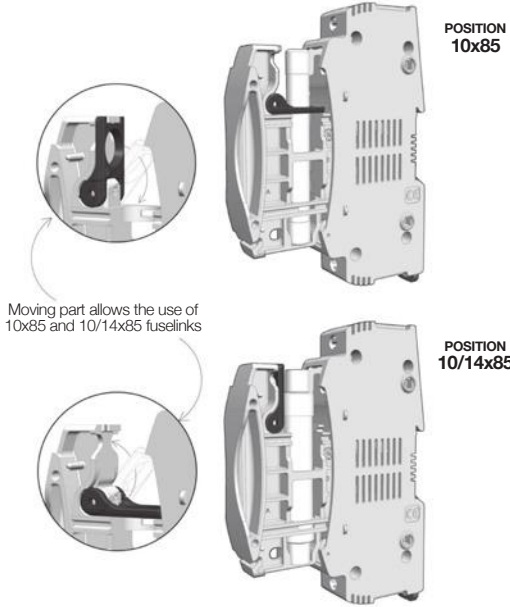


10/14x85 position

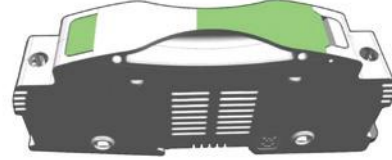
ACCESSORIES

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

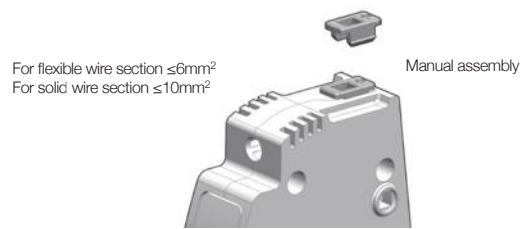
FUSE-LINK SIZE SELECTOR



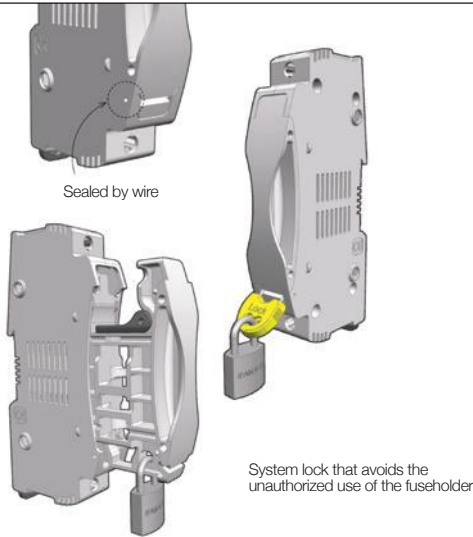
FREE SPACE FOR LABELING



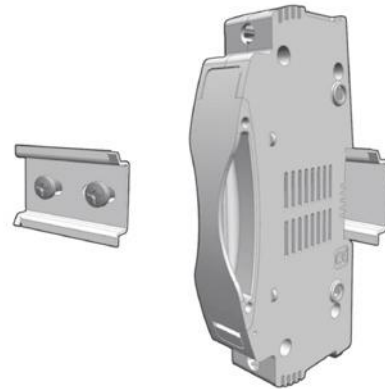
SPECIAL IP20 PROTECTION



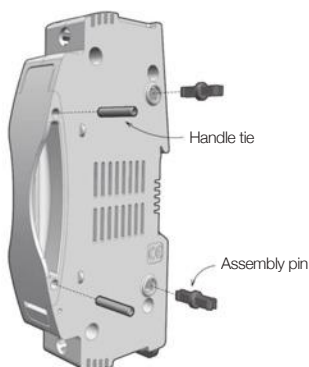
LOCK SYSTEM



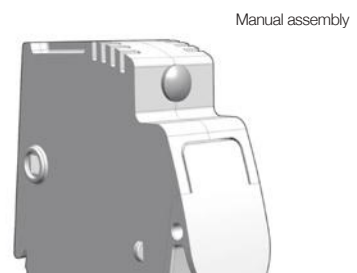
SCREW FIXATION ACCESSORY



MULTIPOLAR ASSEMBLY



SCREW PROTECTION ACCESSORY



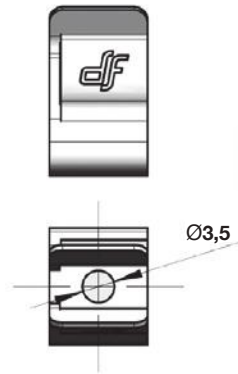
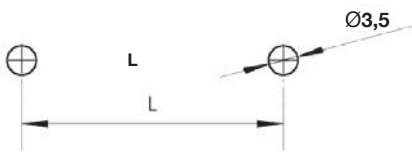


CLIP CONTACT CYLINDRICAL Ø10 fuse links

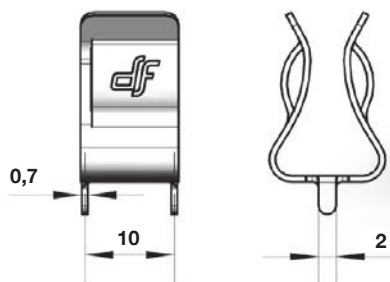
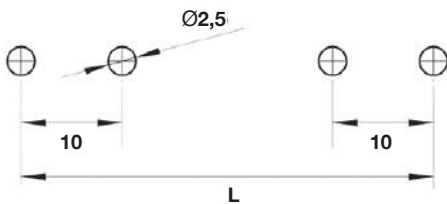
	RATED VOLTAGE	RATED CURRENT	RATED POWER DISSIPATION
UP TO	1000V DC	25A	4W
	1500V DC		

DIMENSIONS

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



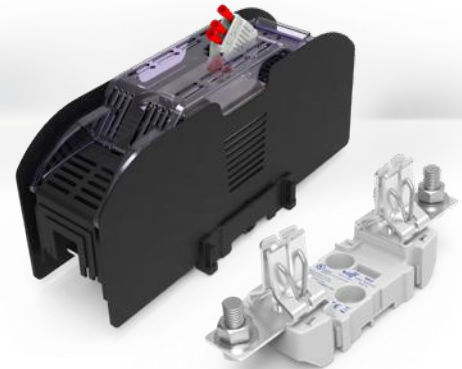
	L (mm)
10x38	42
10x85	89,6



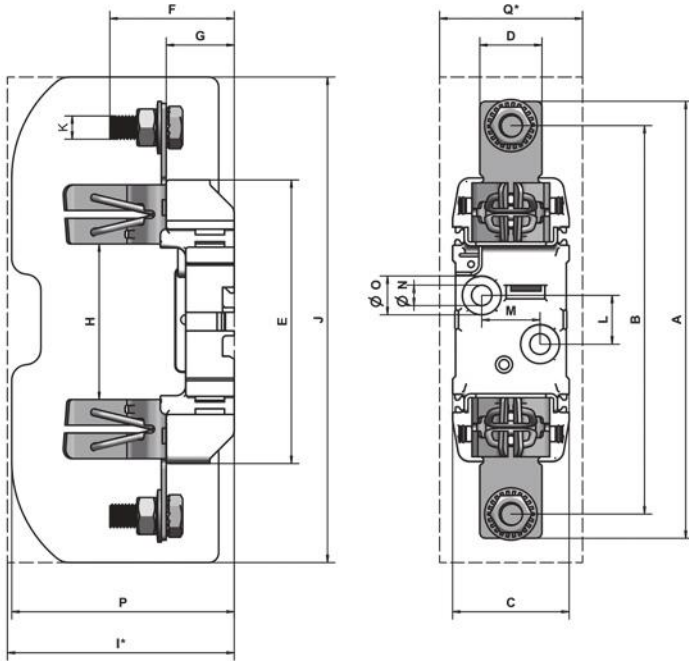


ST NH 1000V DC fuse bases

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
1000V DC	250A ^{NH1}	IP00 IP20
	400A ^{NH2}	
	500A ^{NH3}	



DIMENSIONS



* with IP20 protection

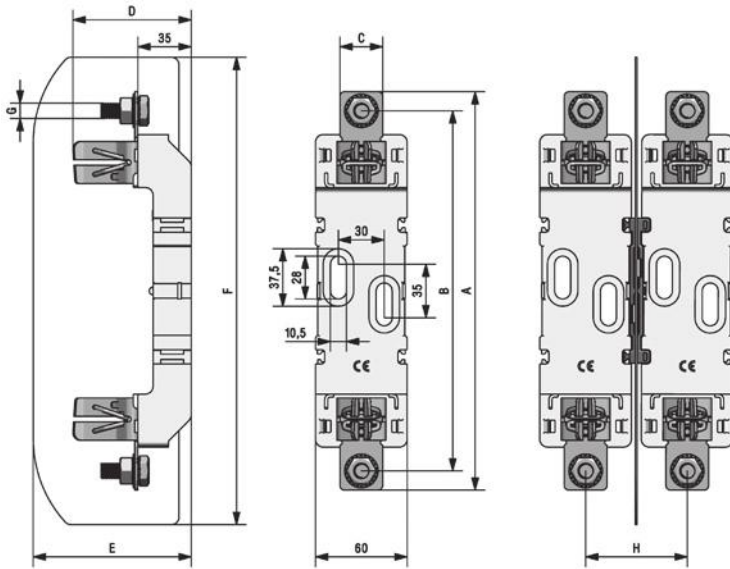
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
NH1	200	175	48	28	146	77,5	35	80	107	230	M10	25	30	10,5	20,5	107	53,5
NH2	225	200	60	32	146	88	35	80	123	250	M12	25	30	10,5	20,5	114,5	83
NH3	240	210	60	38	146	97	35	80	143	270	M12	25	30	10,5	20,5	143	116



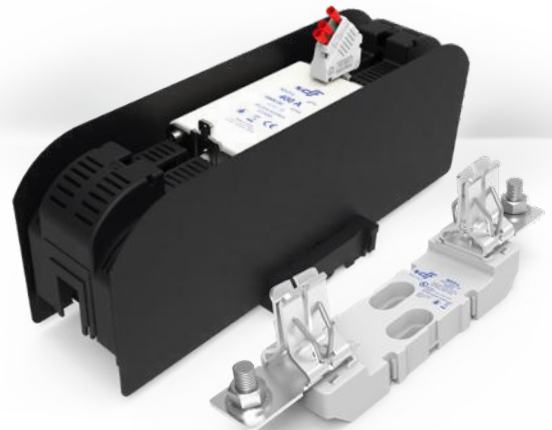
ST NH XL1500V DC fuse bases

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

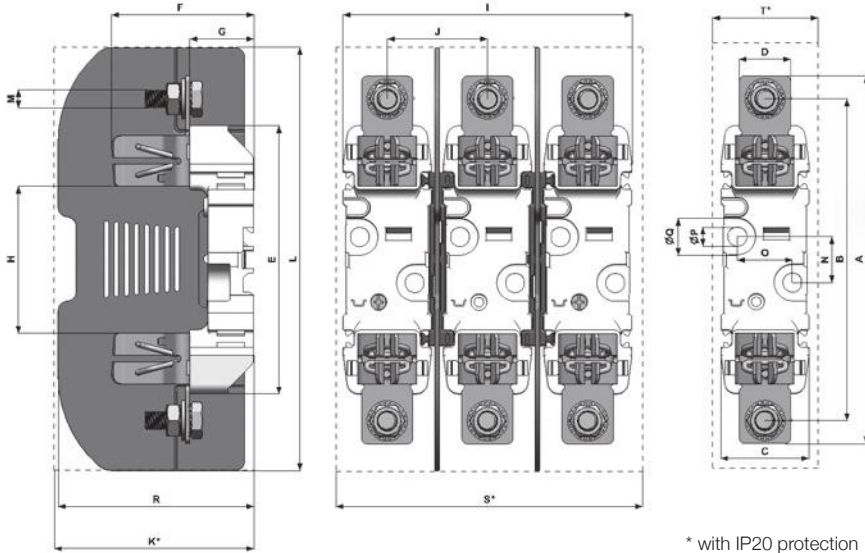




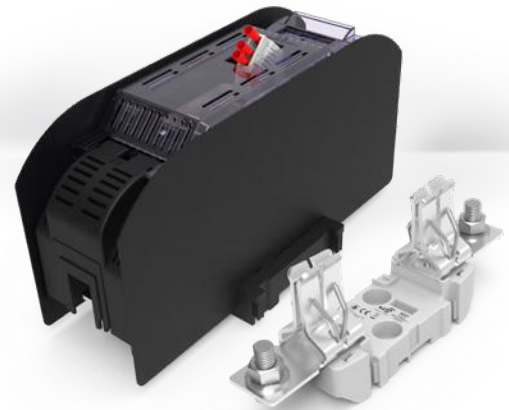
ST NH 800V AC fuse bases

RATED VOLTAGE	RATED CURRENT	PROTECTION INDEX
800V AC	200A ^{NH1}	IP00 IP20
	630A ^{NH3}	

DIMENSIONS



* with IP20 protection



	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	148	77,5	35	80	156,5	54,3	107	230	M10	25	30	10,5	20,5	107	162	54
NH3	240	210	60	38	148	97	35	80	224	82	143	270	M12	25	30	10,5	20,5	143	281	116

ST

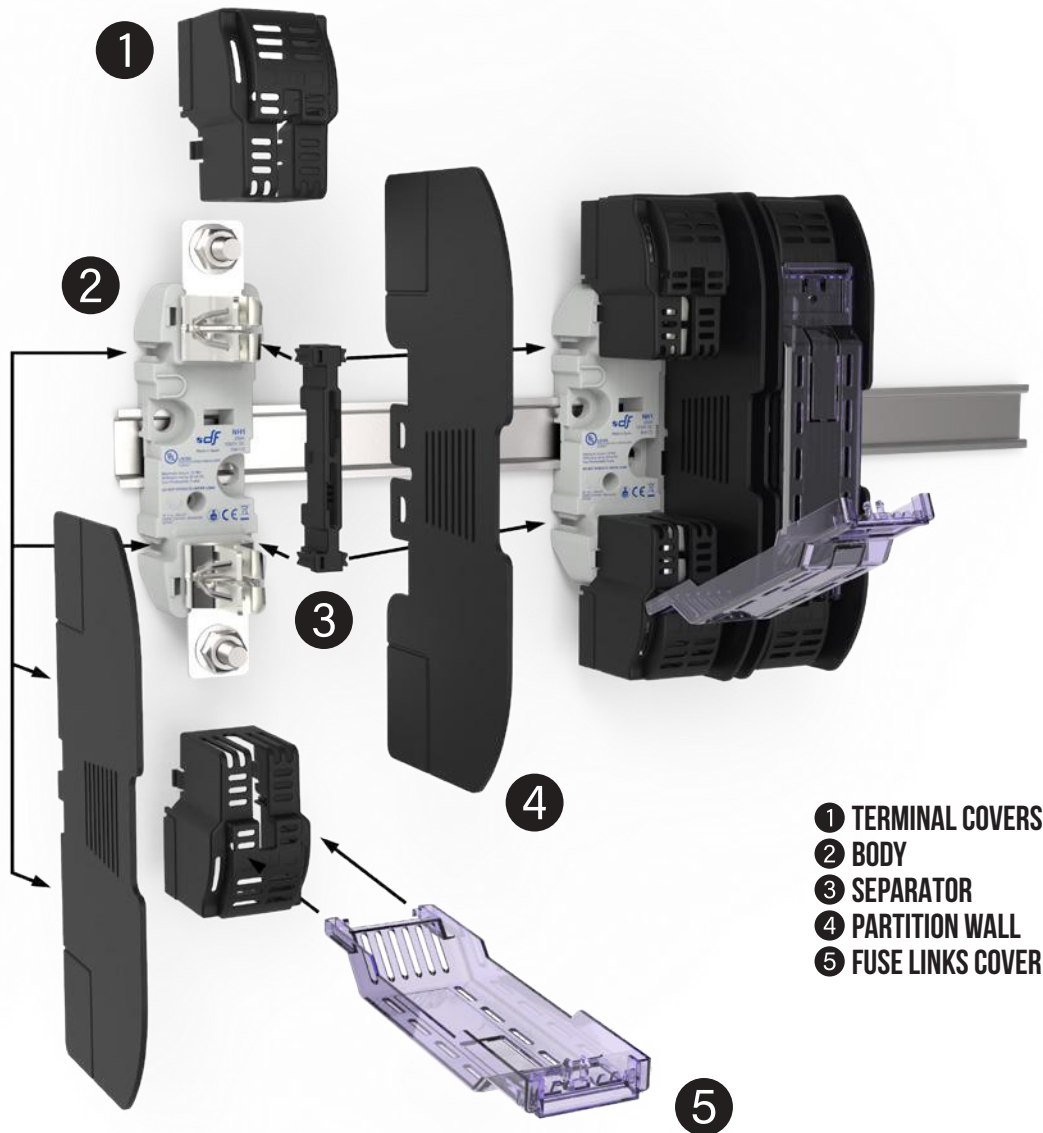
NH1

NH2

NH3

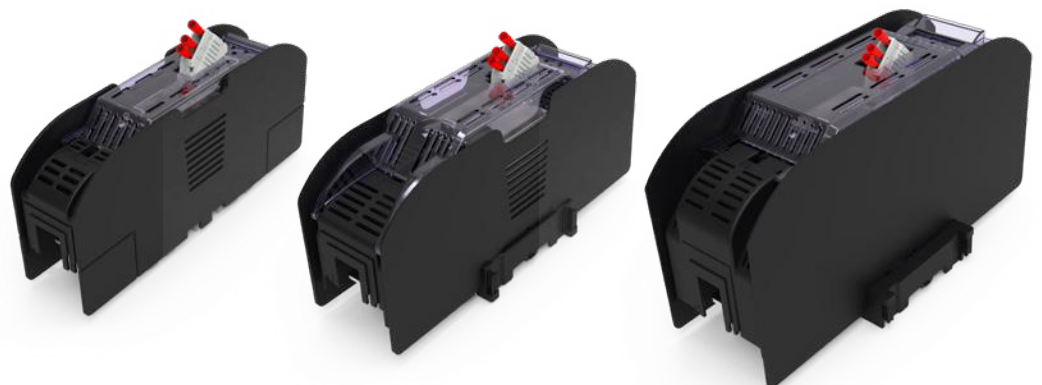
ST
NH 1000V DC
fuse bases

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.



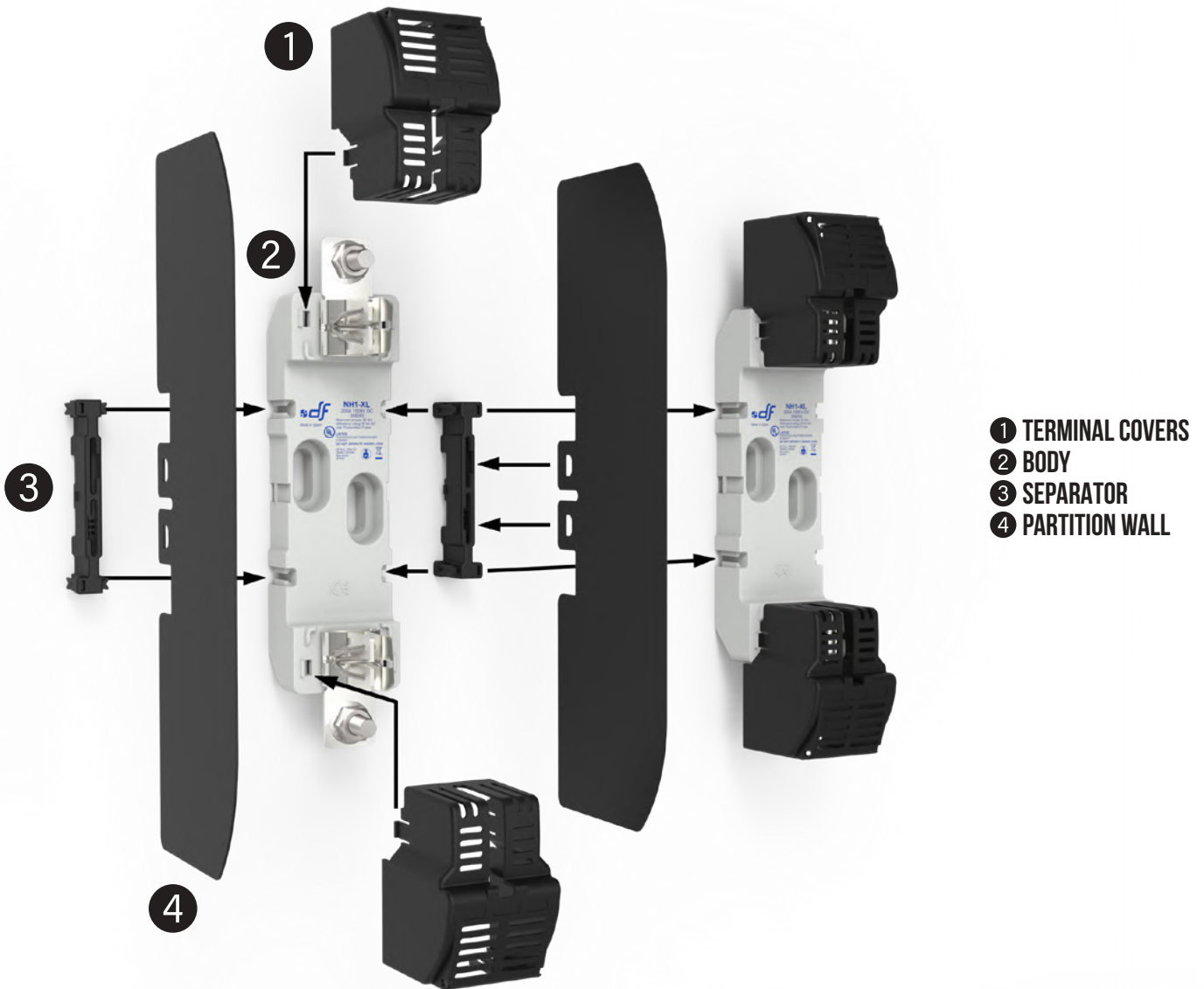
ACCESSORIES

PAG 17



ST
NH XL1500V DC
fuse bases

ACCESSORIES ASSEMBLY



- ① TERMINAL COVERS
- ② BODY
- ③ SEPARATOR
- ④ PARTITION WALL

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



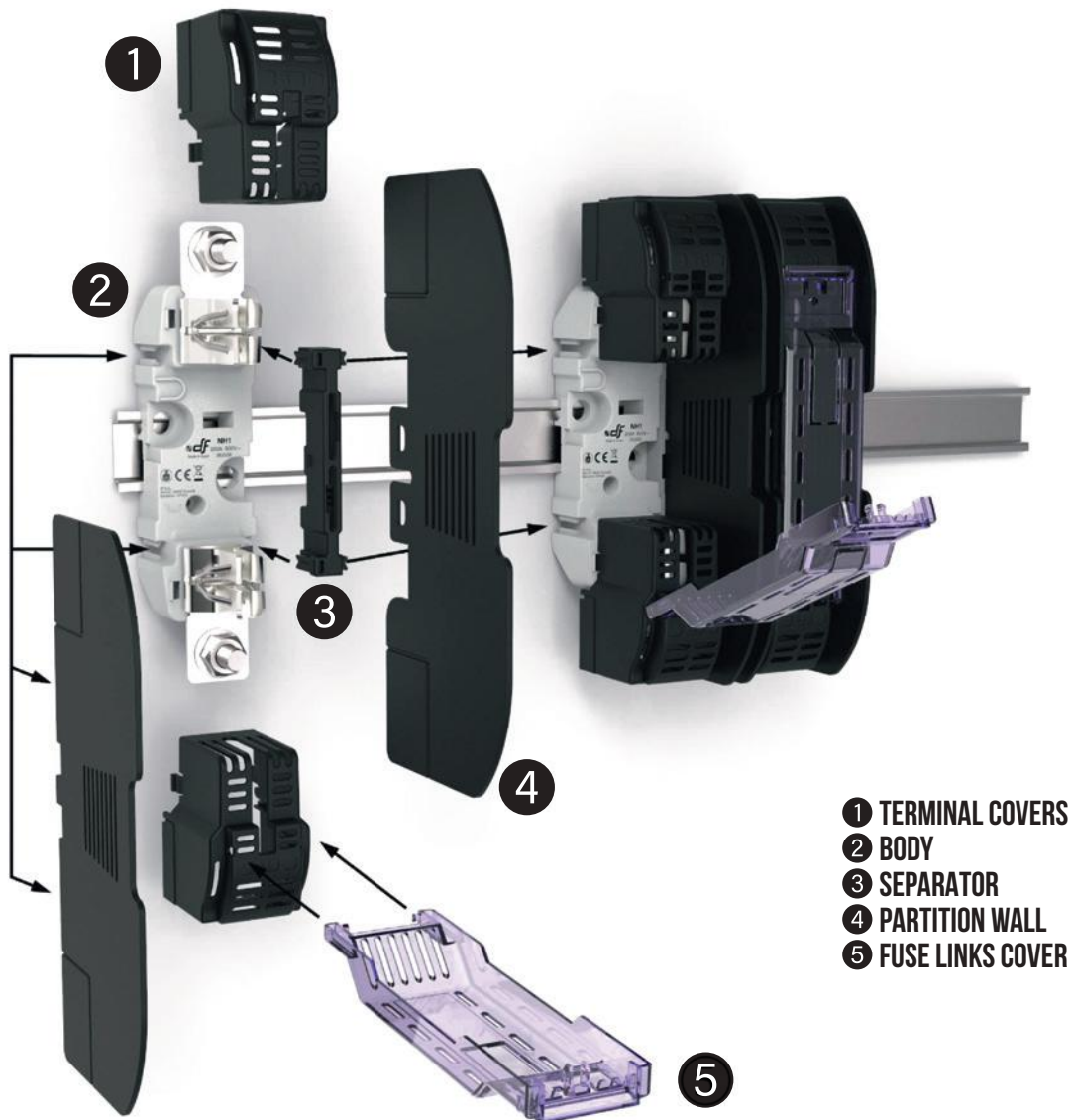
ACCESSORIES

PAG 17



ST
NH 800V AC
fuse bases

ACCESSORIES ASSEMBLY



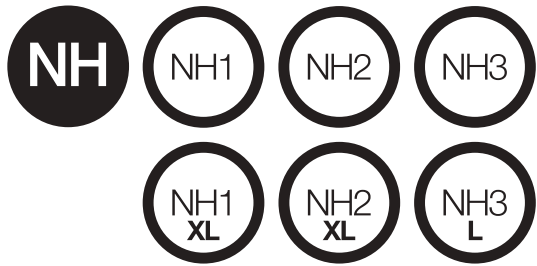
- ① TERMINAL COVERS
- ② BODY
- ③ SEPARATOR
- ④ PARTITION WALL
- ⑤ FUSE LINKS COVER

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



ACCESSORIES

PAG 17



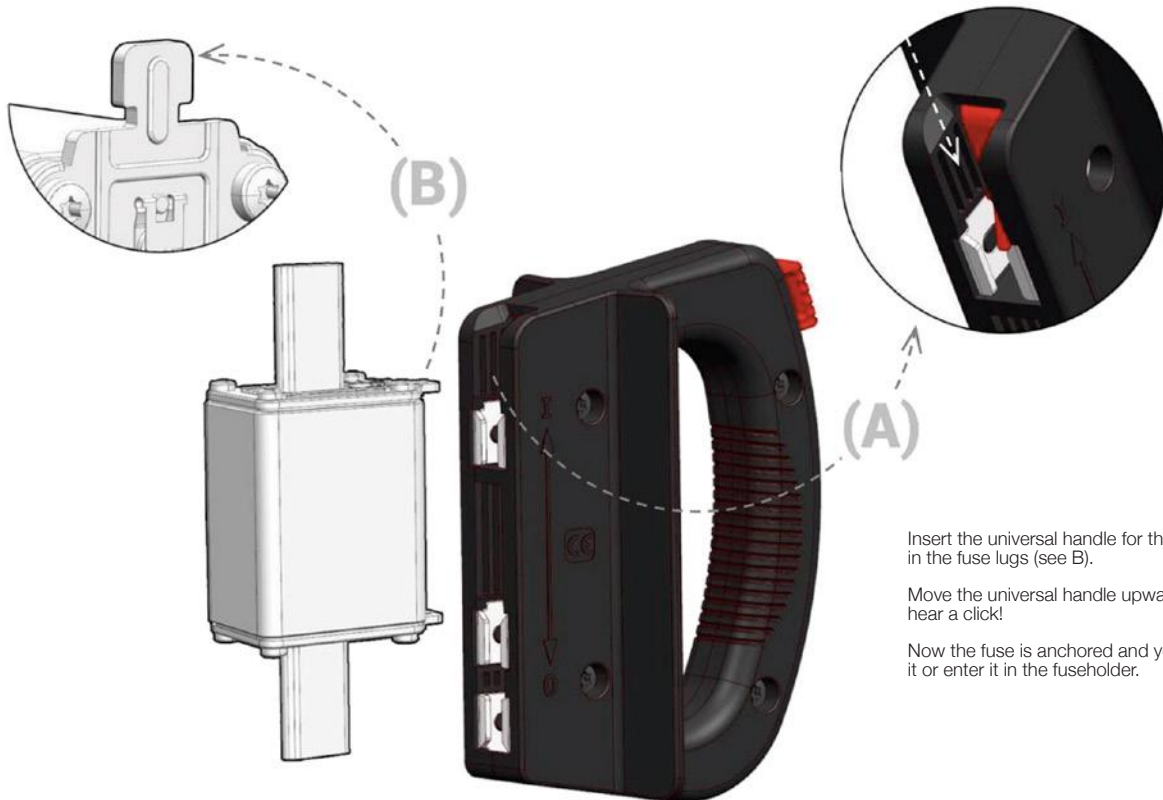
FUSE PULLERS

NH 1000V DC
 NH XL 1500V DC
 accessories

DIMENSIONS



INSTRUCTIONS

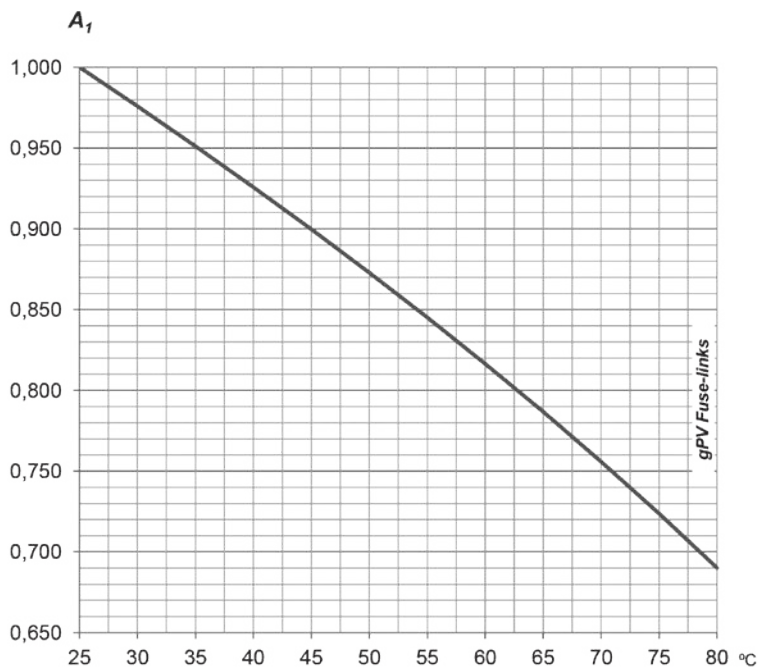


To remove the universal handle from the fuse, press the red button and move the handle downward.

CYL | **gPV**
CYLINDRICAL
fuse links

NH | **gPV**
NH 1000V DC
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



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