

MULTIVERT® 630A

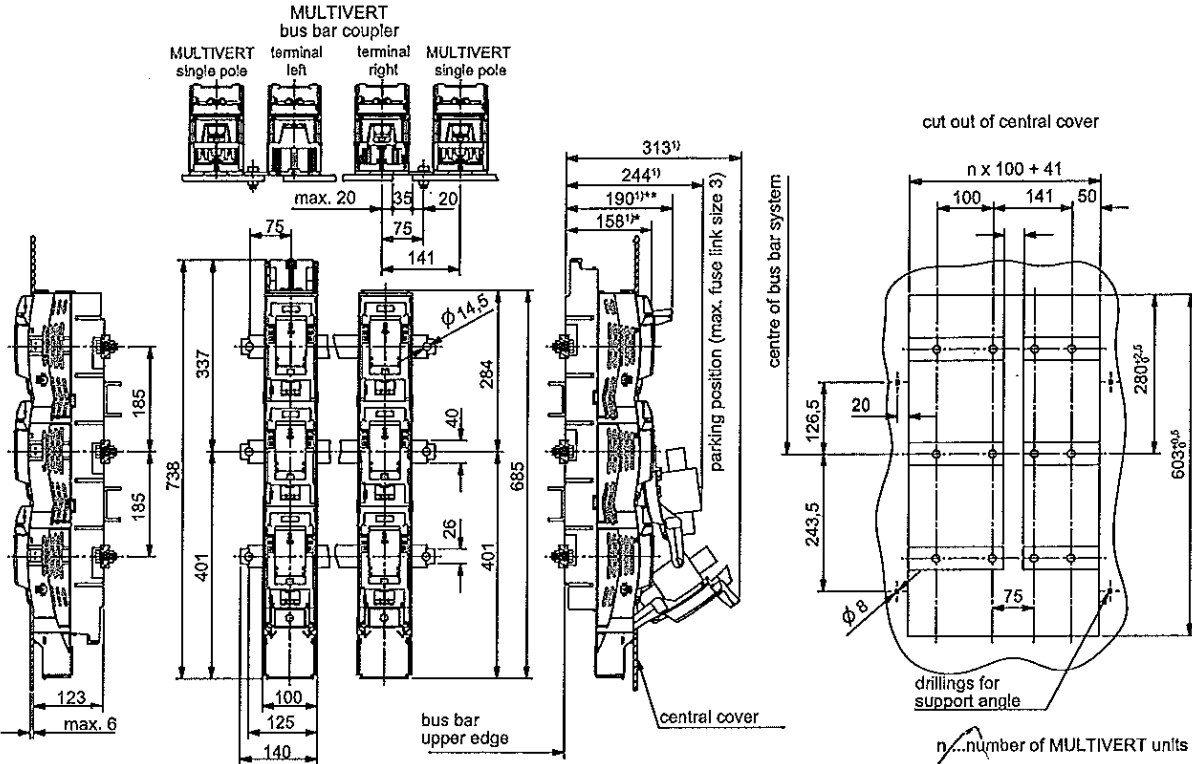
Size 3, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A bus bar coppler switch with lateral terminals

3 x single pole switching

(M01159a)



1) dimensions form upper edge of bus bar

- * 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
- ** 190 mm handle in open position (fixed) - switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

Handwritten signature

DIMENSIONS

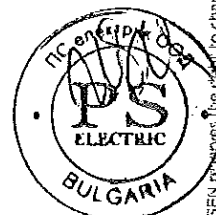
Cable termination MULTIVERT® 250A, 400A, 630A (M01105b)

| reference | B | E | V | |
|---------------------|----------------------------|----------------------------|--|--|
| type of terminal | bolt | insert nut | V-terminal | |
| accessory | cable lug max. width 45 mm | cable lug max. width 45 mm | V-clamp (accessory) 22SZVK4 22SZVK41 | |
| cross section [mm²] | max. 300 | max. 300 | 50 - 240 sectoral solid 50 - 185 sectoral stranded 35 - 70 round stranded 35 - 50 round solid | 95 - 300 sectoral solid 70 - 240 sectoral stranded 50 - 185 round stranded 70 - 240 round solid |
| M [Nm] | 35 ±3 | 35 ±3 | 25 ±2 | 25 ±2 |
| | | | | |

Dimensions in mm

Handwritten signature

ВЯРНО С
ОРИГИНАЛА



Mersen reserves the right to change, update or correct, without notice, any information contained in this datasheet.

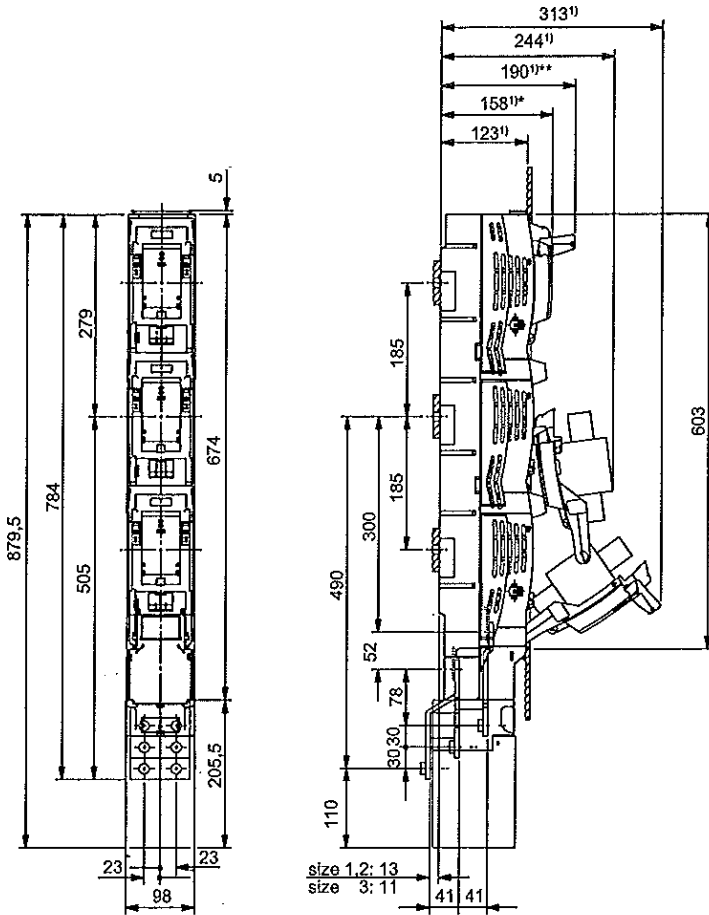


MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

Cable termination MULTIVERT® 250A, 400A, 630A multiple termination (M01156a)



1) dimensions form upper edge of bus bar

* 158 mm handle in closed position (folded) = total installation depth of MULTIVERT

** 190 mm handle in open position (fixed) - switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



Mersen reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

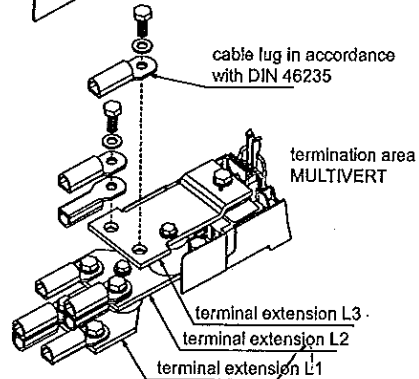
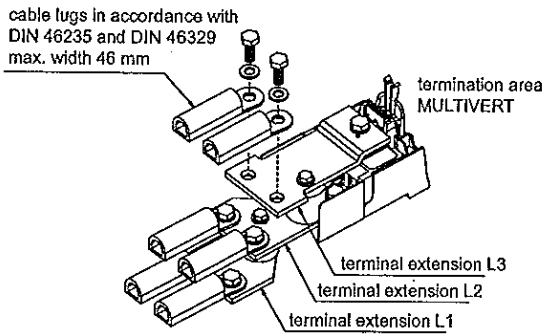
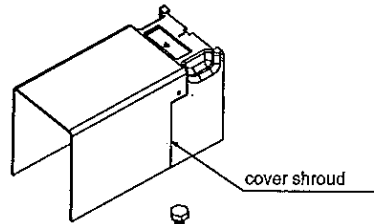
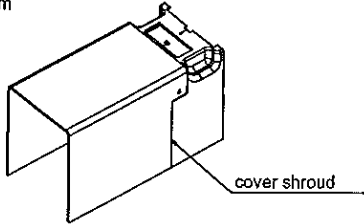
Cable termination MULTIVERT[®] 250A, 400A, 630A multiple termination (MAB8f)

terminal: 2 cable lugs

terminal: 3 cable lugs

Cu: up to max. 300 mm² round stranded, sectoral stranded cable lugs in accordance with DIN 46235
 Al: up to max. 300 mm² round stranded, sectoral stranded cable lugs in accordance with DIN 46329
 M: 32-38 Nm

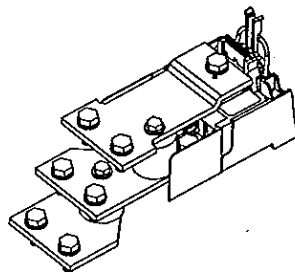
Cu: up to max. 150 mm² round stranded, sectoral stranded cable lugs in accordance with DIN 46235
 M: 32-38 Nm



NOTE:
 Due to safety precautions we suggest to insulate the cable lugs (185, 240 und 300 mm²).

NOTE:
 Due to safety precautions we suggest to insulate the cable lugs (95, 120 und 150 mm²).

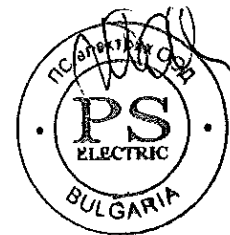
Position of terminals



tightening torque of screws: 32 - 38 Nm

ВЯРНО С
 ОРИГИНАЛА

Dimensions in mm



Mersen reserves the right to change, update or correct, without notice, any info contained in this datasheet.

MULTIVERT® 630A

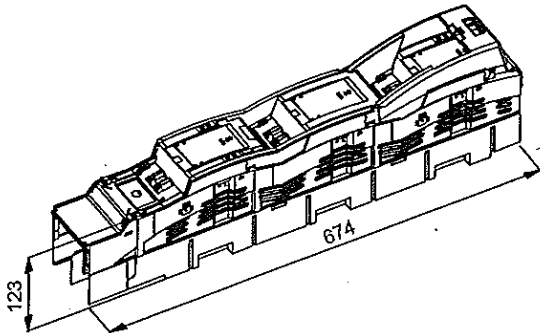
Size 3, 690VAC

DIMENSIONS

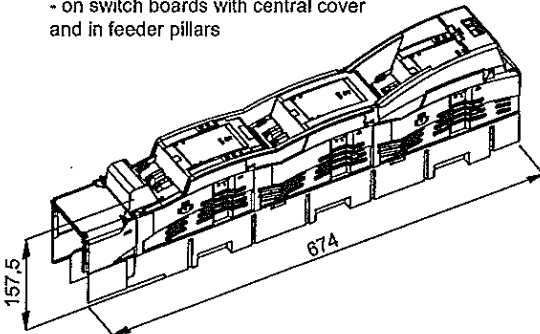
Cover shrouds for cable termination bottom terminal MULTIVERT® 250A, 400A, 630A (M01160a-1)

standard design:
integrated shroud for bottom cable termination

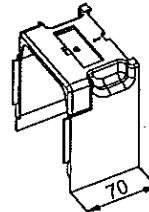
for terminal connections with cable lugs (bolt and insert nut)
- on switch boards with central cover



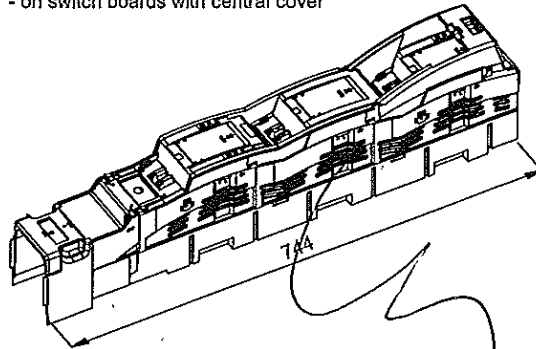
for clamp terminal connections (V-terminal)
for special "high" clamp terminal connections (double V-clamps)
- on switch boards with central cover
and in feeder pillars



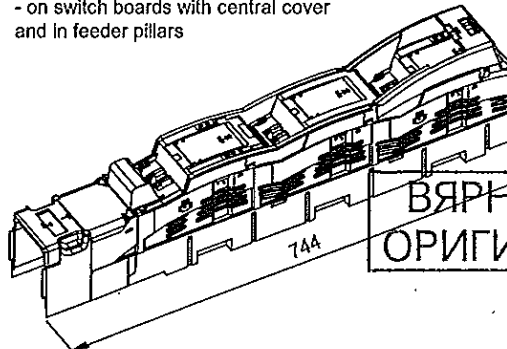
Extension shroud for bottom cable termination
article number 1.002.095 (accessory)



for extended cover
for terminal connections with cable lugs (bolt and insert nut)
- on switch boards with central cover

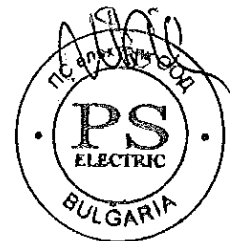


for extended cover
for clamp terminal connections (V-terminal)
for special "high" clamp terminal connections (double V-clamps)
- on switch boards with central cover
and in feeder pillars



ВЯРНО С
ОРИГИНАЛА

Dimensions in mm



Mersen reserves the right to change details or correct, without notice, any information contained in this datasheet.

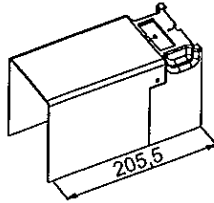
MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

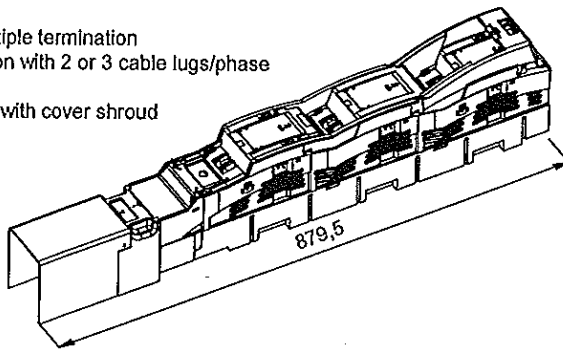
Cover shrouds for cable termination bottom terminal MULTIVERT® 250A, 400A, 630A multiple termination

(M01160b-2)

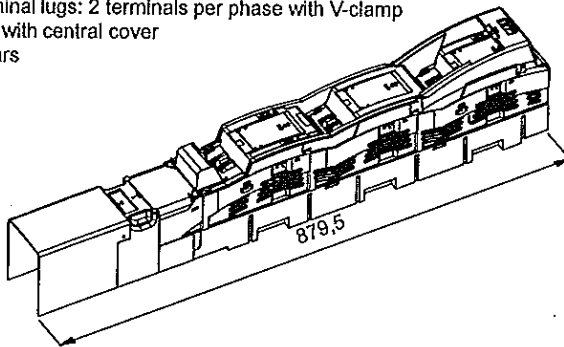


catalogue no. 1.002.458 - accessory

for application multiple termination
for cable termination with 2 or 3 cable lugs/phase
see MA 88
- on switch boards with cover shroud



for application multiple termination
for V-terminal: terminal lugs: 2 terminals per phase with V-clamp
- on switch boards with central cover
and in feeder pillars



Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

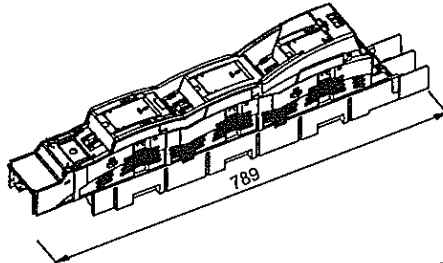
MULTIVERT® 630A

Size 3, 690VAC

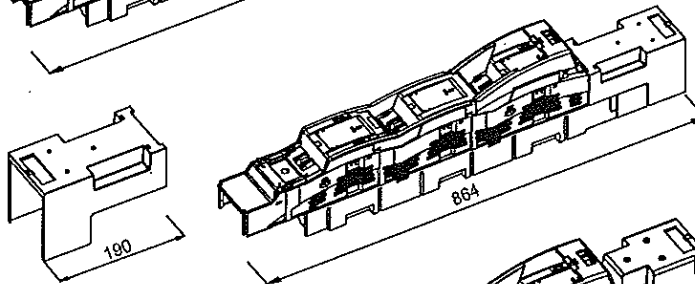
DIMENSIONS

Cover shrouds for cable termination top terminal MULTIVERT® 250A, 400A, 630A (M01160a-3)

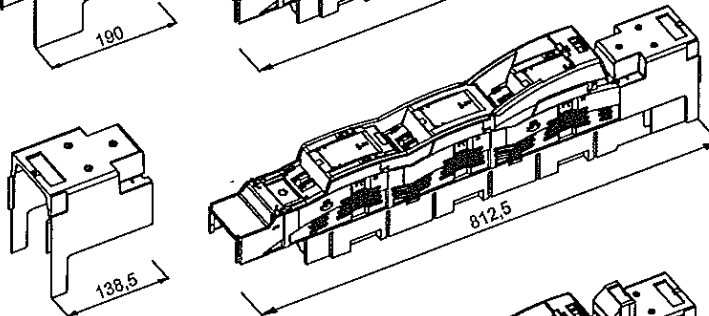
without shroud for cable termination



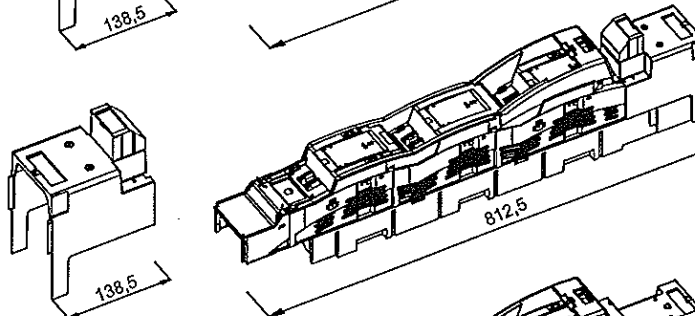
shroud for top cable termination
article number: MZKHO (accessory)
for terminal connections with
cable lugs (bolt and insert nut)
- on switch boards with central cover



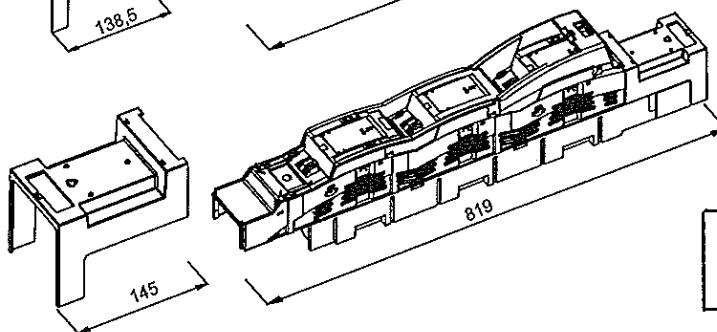
shroud for top cable termination
article number: MZKAB (accessory)
for clamp terminal connections
(V-terminal)
- in feeder pillars



shroud for top cable termination
article number: MZKAB1 (accessory)
for special "high" clamp terminal
connections (double V-clamps)
- in feeder pillars

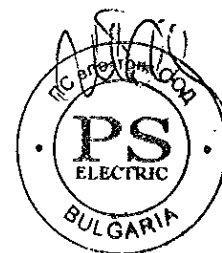


shroud for top cable termination
article number: MZKHV (accessory)
for terminal connections with cable lugs
for installation in distribution units
with central cover



Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



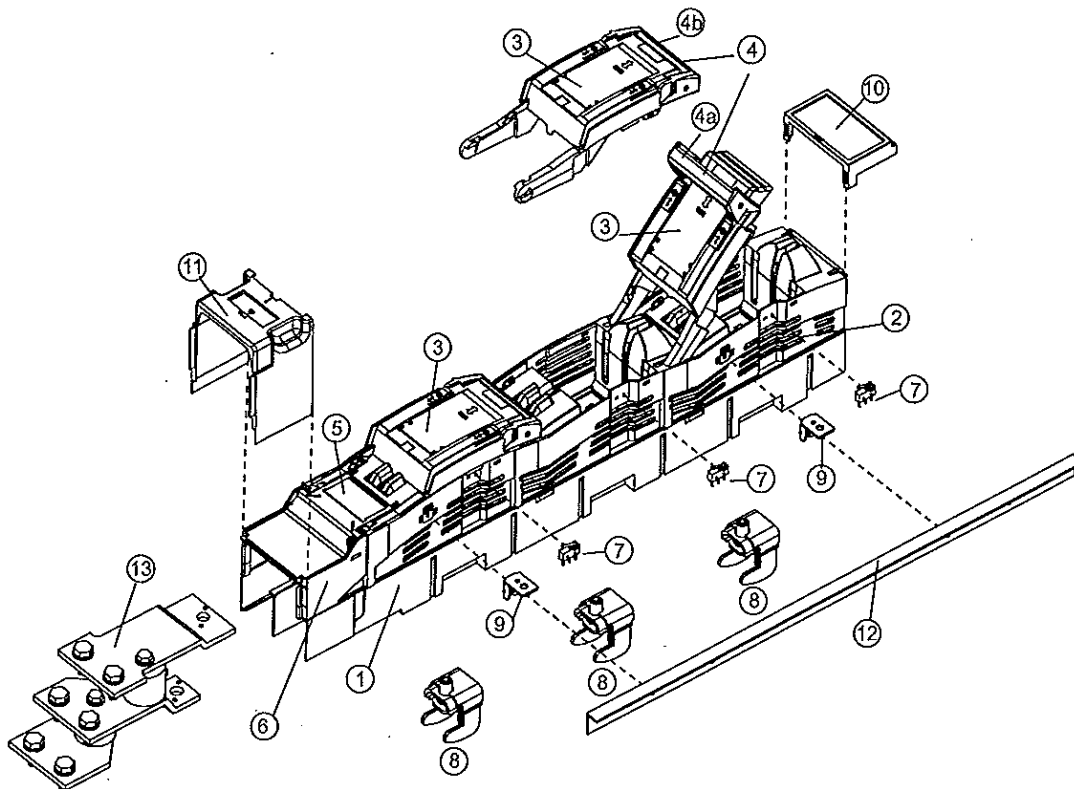
Mersen reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

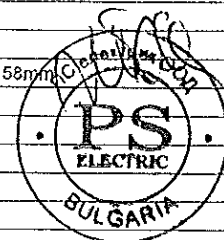
EXPLODED SKETCH

MULTIVERT® 250A, 400A, 630A 3x single pole switching (E 1.002.265a)



ВЯРНО С
ОРИГИНАЛА

| no. | part number | short description |
|-----|-------------|--|
| 1 | | Main base |
| 2 | | Protection cover (removable) |
| 3 | | Switch operating cover triple pole |
| 4 | | Combination handle: 4a. open - switching position; 4b. Closed - installation depth 158mm |
| 5 | | Labelling area (label) |
| 6 | | Integrated cover shroud |
| 7 | 1.000.852 | indicator for switch door position |
| 8 | 1.000.192 | Hooked clamp, 1 set = 3 pieces |
| 9 | MZAW | Support angle, 1 set = 4 pieces |
| 10 | MZBT | Label holder |
| 11 | 1.002.095 | Cover shroud, bottom terminal, 70mm |
| 12 | 1.001.510 | cover shield, length 605mm, set=2 pieces |
| 13 | 1.002.255 | Supplementary set for multiple terminal |



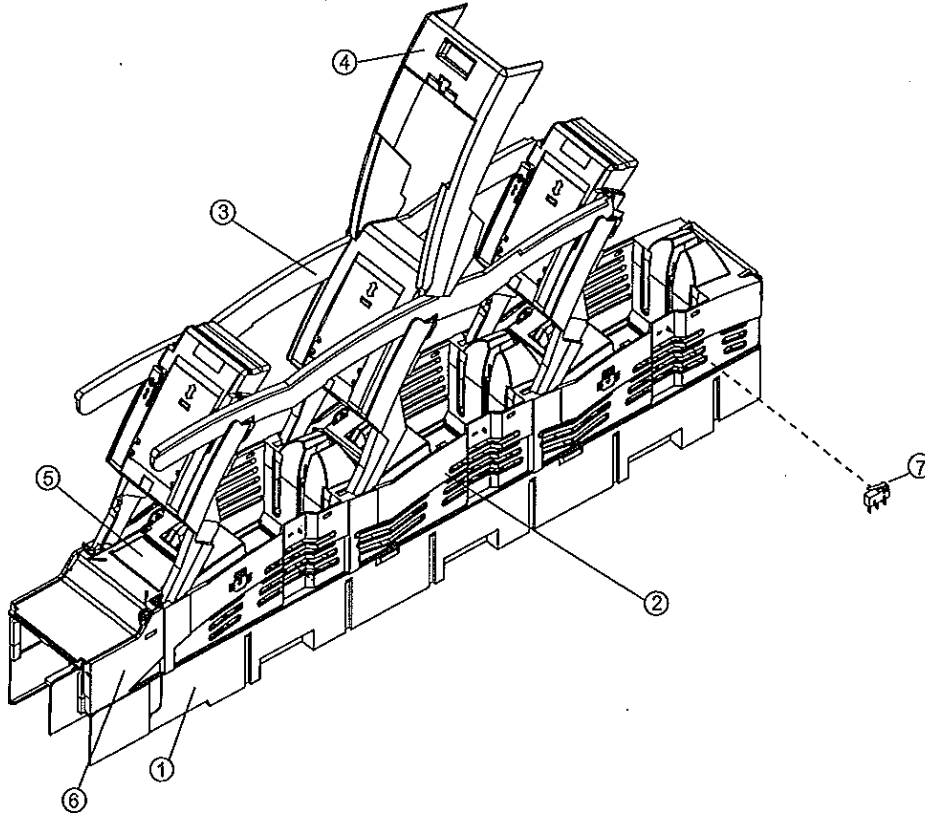
MULTIVERT® 630A

Size 3, 690VAC

[Handwritten signature]

EXPLODED SKETCH

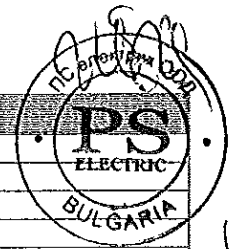
MULTIVERT® 250A, 400A, 630A 1x triple pole switching (E 1.002.266)



[Handwritten mark]

ВЯРНО С
ОРИГИНАЛА

| No. | Article number | Short description |
|-----|----------------|------------------------------------|
| 1 | | Main base |
| 2 | | Protection cover (removable) |
| 3 | | Switch operating cover triple pole |
| 4 | | Handle |
| 5 | | Labelling area (label) |
| 6 | | Integrated cover shroud |
| 7 | 1.000.852 | Indicator for switch door position |



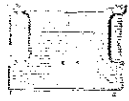
Mersen reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

Handwritten signature

ACCESSORIES



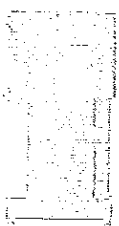
1.002.095



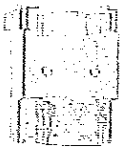
1.002.458



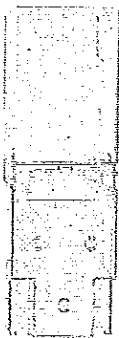
MZKAB



MZKHO



MZKAB1



MZVHB



MZKHV



1.001.510



MZAW

Cover/shrouds for cable termination

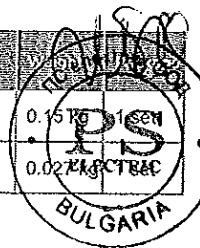
| Catalog number | Item number | Weight | Design | Application | Weight | Package |
|----------------|-------------|----------|---|-----------------|----------|---------|
| 1.002.095 | J1002279 | 0.116 kg | cover shroud for extended cover length 70 mm | bottom terminal | 0.116 kg | 1 piece |
| 1.002.458 | N1023305 | 0.164 kg | cover shroud for multiple termination length 205,5mm | bottom terminal | 0.164 kg | 1 piece |
| MZKAB | J1023301 | 0.174 kg | cover shroud for clamp terminal connection in feeder pillars length 138,5 mm | top terminal | 0.101 kg | 1 piece |
| MZKHO | G217655 | 0.126 kg | cover shroud for cable terminal connections with cable lugs on switchboards with central cover length 190 mm | top terminal | 0.126 kg | 1 piece |
| MZKAB1 | K1023302 | 0.115 kg | cover shroud for special (high) clamp terminal connection in feeder pillars length 138,5 mm | top terminal | 0.115 kg | 1 piece |
| MZVHB | L1023303 | 0.225 kg | extended cover shroud length 257 mm | top terminal | 0.225 kg | 1 piece |
| MZKHV | A1002202 | 85 g | cover shroud for installation in distribution units with central cover (height of supporting edge reduced by 16 mm) length 145 mm | top terminal | 85 g | 1 piece |

Handwritten mark

**ВЯРНО С
ОРИГИНАЛА**

Covers/level & system adjustment covers

| Catalog number | Item number | Weight | Design | Weight | Package |
|----------------|-------------|---------|--|---------|---------|
| 1.001.510 | K1002280 | 0.15 kg | cover shield to support central cover 1 set = 2 pieces | 0.15 kg | 1 set |
| MZAW | D218687 | 27 g | support angle for support of cover plate 1 set = 4 pieces | 0.02 kg | 1 set |



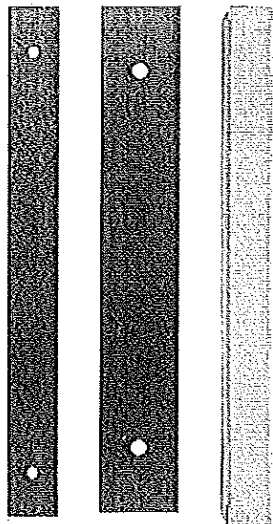
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

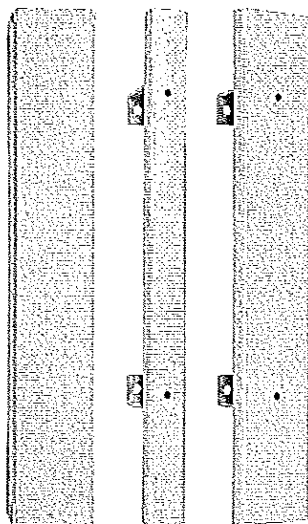
Size 3, 690VAC

Handwritten signature

ACCESSORIES



MZ01LPAP MZLPAP 1.002.493



1.002.492 1.002.830 1.002.829



1.002.648



1.000.192

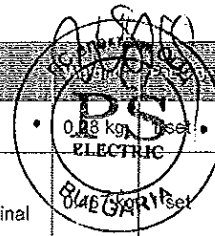
Covers/spare way covers

| Catalog number | Item number | Weight | Design | Application | Weight | Packages |
|----------------|-------------|----------|---|-----------------------------|----------|----------|
| MZ01LPAP | C1023410 | 60 g | spare way cover without level adjustment width 50 mm, length 500 mm including fixing material | bus bar system 185 mm | 60 g | 1 piece |
| MZLPAP | D1023411 | 0.56 kg | spare way cover width 100 mm, length 612 mm including 2 pieces M12 fixing screws (distance of fixing holes 185 mm) | bus bar system 185 mm | 0.56 kg | 1 piece |
| 1.002.493 | N1002283 | 0.136 kg | spare way cover width 50 mm, length 630 mm for covering of open installation spaces in distribution units with central cover | bus bar system 185 mm | 0.136 kg | 1 piece |
| 1.002.492 | M1002282 | 0.202 kg | spare way cover width 100 mm, length 630 mm for covering of open installation spaces in distribution units with central cover | bus bar system 185 mm | 0.202 kg | 1 piece |
| 1.002.830 | E1023412 | 0.203 kg | spare way cover width 50 mm, length 630 mm with level adjustment 123 mm for bus bar installation, set = cover + fixing set (2 distance pieces, 2 screw rivets) | bus bar system 185 mm | 0.203 kg | 1 set |
| 1.002.829 | F1023413 | 0.33 kg | spare way cover width 100 mm, length 630 mm with level adjustment 123 mm for bus bar installation set = cover + fixing set (2 distance pieces, 2 screw rivets) | bus bar system 185 mm | 0.27 kg | 1 set |

**ВЯРНО С
ОРИГИНАЛА**

Installation devices/bus bar installation

| Catalog number | Item number | Weight | Design |
|----------------|-------------|----------|--|
| 1.002.648 | T1023448 | - | M12 insert nut, size 2 and 3 1 set = 30 pieces |
| 1.000.192 | P1002284 | 0.467 kg | hooked clamp size 1, 2, 3, M = 15-20 Nm hexagon socket connection (inbus) for MULTIVERT®/BSL with top or bottom terminal 1 set = 3 pieces |

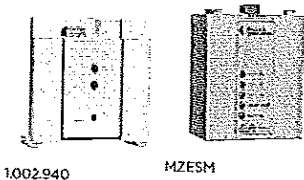


MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

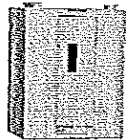
Size 3, 690VAC

ACCESSORIES



1.002.940

MZESM



1.000.829



1.000.852

Indication facilities

| Catalog number | Item number | Weight | Design | Weight | Package |
|----------------|-------------|----------|--|----------|---------|
| 1.002.940 | Z1023453 | 0.159 kg | electronic fuse monitoring ESU size 1,2,3 for MULTIVERT® 250 A, 400 A, 630 A with cabling of instrument leads (rated voltage 525VAC) | 0.85 kg | 1 piece |
| MZESM | J228766 | 0.104 kg | Electronic System Monitor ESM size 1,2,3 for MULTIVERT® 250 A, 400 A, 630 A with cabling of instrument leads | 0.104 kg | 1 piece |
| 1.000.829 | L1023418 | 0.314 kg | electro-mechanical fuse monitoring (galvanic isolation) MZS size 1,2,3 for MULTIVERT® 250 A, 400 A, 630 A with cabling of instrument leads | 0.314 kg | 1 piece |
| 1.000.852 | Q1002285 | 9 g | indicator for switch door position micro switch, 1 change-over contact 5 A, 250 V | 0.09 kg | 1 piece |



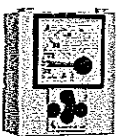
1.000.102



1.000.103



1.000.104



1.000.109

Amperemeter units

| Catalog number | Item number | Weight | Design | Weight | Package |
|----------------|-------------|---------|---|--------|---------|
| 1.000.102 | M1023281 | 0.44 kg | size 1, 2, 3, 250 A, with drag indicator, single pole measurement | 83 g | 1 piece |
| 1.000.103 | N1023282 | 0.44 kg | size 2, 3, 400 A, with drag indicator, single pole measurement | 83 g | 1 piece |
| 1.000.104 | P1023283 | 0.44 kg | size 3, 630 A, with drag indicator, single pole measurement | 83 g | 1 piece |
| 1.000.105 | J1023278 | 0.44 kg | size 3, 1000 A, with drag indicator, single pole measurement | 83 g | 1 piece |
| 1.000.108 | T1023287 | 0.44 kg | size 1, 2, 3, 250 A, with drag indicator, triple pole measurement (optional L1, L2, L3) | 83 g | 1 piece |
| 1.000.109 | V1023288 | 0.44 kg | size 2, 3, 400 A, with drag indicator, triple pole measurement (optional L1, L2, L3) | 83 g | 1 piece |
| 1.000.110 | W1023289 | 0.44 kg | size 3, 630 A, with drag indicator, triple pole measurement (optional L1, L2, L3) | 83 g | 1 piece |
| 1.000.111 | Q1023284 | 0.44 kg | size 3, 1000 A, with drag indicator, triple pole measurement (optional L1, L2, L3) | 83 g | 1 piece |



1.002.294

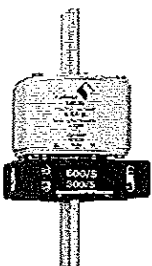


1.002.295

Amperemeter for direct frontal installation

| Catalog number | Item number | Weight | Design | Weight | Package |
|----------------|-------------|---------|--|---------|---------|
| 1.002.294 | G1023276 | 0.14 kg | size 2/3, 400 / 200 / 5A, with drag indicator, for NH-measuring fuse link, single pole measurement | 0.14 kg | 1 piece |
| 1.002.295 | H1023277 | 0.14 kg | size 2/3, 600 / 300 / 5A, with drag indicator, for NH-measuring fuse link, single pole measurement | 0.14 kg | 1 piece |

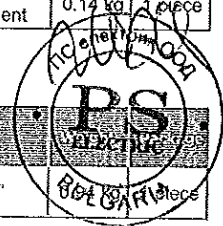
ВЯРНО С
ОРИГИНАЛА



1.002.291

NH-measuring fuse links

| Catalog number | Item number | Weight | Design | Weight | Package |
|----------------|-------------|---------|---|--------|---------|
| 1.002.291 | K1023417 | 0.94 kg | size 3, 630 A C.T. current = 600/5A or 300/5A, distance between plugs 50 mm | | |



MERSEN reserves the right to change, update or correct, without notice, any info contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

ACCESSORIES



MZ3SW400



SZ1SW600



MZPR600

Current transformers/external current transformers

| Catalog number | Item number | Weight | Design | Weight | Package |
|----------------|-------------|----------|--|---------|---------|
| MZ1SW250 | K1024567 | 0.88 kg | current transformer up to 250/5A for single pole measurement, class 1 set = 1 piece current transformer + 3 pieces distance tubes for level adjustment, 1 piece installed in the current transformer, 2 pieces additionally packed | 0.88 kg | 1 set |
| MZ1SW400 | N1024570 | 0.89 kg | current transformer up to 400/5A for single pole measurement, class 1 set = 1 piece current transformer + 3 pieces distance tubes for level adjustment, 1 piece installed in the current transformer, 2 pieces additionally packed | 0.89 kg | 1 set |
| MZ1SW600 | R1024573 | 1.22 kg | current transformer up to 600/5A for single pole measurement, class 1 set = 1 piece current transformer + 3 pieces distance tubes for level adjustment, 1 piece installed in the current transformer, 2 pieces additionally packed | 1.22 kg | 1 set |
| MZ1SW1000 | E1024562 | - | current transformer up to 1000/5A for single pole measurement, class 1 set = 1 piece current transformer + 3 pieces distance tubes for level adjustment, 1 piece installed in the current transformer, 2 pieces additionally packed | 1.92 kg | 1 set |
| MZ3SW250 | M1024569 | 1.38 kg | current transformer up to 250/5A for triple pole measurement, class 1 set = 3 pieces current transformer with distance tubes for level adjustment, 3 pieces installed in the current transformer | 1.38 kg | 1 set |
| MZ3SW400 | Q1024572 | 1.43 kg | current transformer up to 400/5A for triple pole measurement, class 1 set = 3 pieces current transformer with distance tubes for level adjustment, 3 pieces installed in the current transformer | 1.43 kg | 1 set |
| MZ3SW600 | T1024575 | 1.275 kg | current transformer up to 600/5A for triple pole measurement, class 1 set = 3 pieces current transformer with distance tubes for level adjustment, 3 pieces installed in the current transformer | 1.43 kg | 1 set |
| MZ3SW1000 | G1024564 | 2.47 kg | current transformer up to 1000/5A for triple pole measurement, class 1 set = 3 pieces current transformer with distance tubes for level adjustment, 3 pieces installed in the current transformer | 2.47 kg | 1 set |
| SZ1SW250 | L1024568 | - | current transformer up to 250/5A, class 1, for single pole measurement | 0.43 kg | 1 piece |
| SZ1SW600 | S1024574 | - | current transformer up to 600/5A, class 1, for single pole measurement | 0.4 kg | 1 piece |
| SZ1SW400 | P1024571 | - | current transformer up to 400/5A, class 1, for single pole measurement | 0.46 kg | 1 piece |
| SZ1SW1000 | F1024563 | - | current transformer up to 1000/5A, class 1, for single pole measurement | 0.49 kg | 1 piece |
| MZPR600 | S1024597 | - | distance tube for level adjustment, up to 600/5A, supplementary set for neighbouring MULTIVERT without measurement to obtain uniform profile in height 1 set = 3 pieces | 0.62 kg | 1 set |

БЯРНО С
ОРИГИНАЛ
PS ELECTRIC
BULGARIA

Labelling facilities

| Catalog number | Item number | Weight | Design | Weight | Package |
|----------------|-------------|--------|---------------------------|---------|---------|
| MZBT | B222181 | 34 g | label holder size 1, 2, 3 | 0.03 kg | 1 piece |



MZBT

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

ACCESSORIES



1.002.909



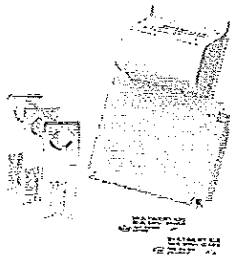
1.002.910



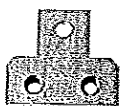
22SZVK42



1.000.099



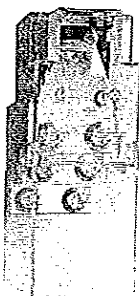
1.003.286



1.001.667



1.003.377

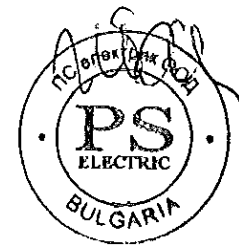


1.002.255

Varieties of cable termination

| Cable number | Item number | Weight | Description | Weight | Package |
|--------------|-------------|-----------|--|----------|---------|
| 1.002.909 | K1024613 | 0.243 kg | V-terminal clamp size 1,2,3, 95-240 mm ² single solid, 70-240 mm ² single stranded, 50-185 mm ² round stranded, 70-240 mm ² round solid, M = 23 -27 Nm 1 set = 3 pieces | 0.243 kg | 1 set |
| 1.002.910 | L1024614 | 0.26 kg | V-terminal clamp size 1,2,3, 95-300 mm ² single solid, 70-240 mm ² single stranded, 50-185 mm ² round stranded, 70-240 mm ² round solid, M = 23 -27 Nm 1 set = 3 pieces | 0.258 kg | 1 set |
| 22SZVK42 | Q1024618 | 0.1736 kg | V-terminal clamp size 1,2,3 for 2 conductors 50-240 mm ² single solid, 50-185 mm ² single stranded, 50-185 mm ² round stranded, 70-240 mm ² round solid M = 23-27 Nm | 6.8 g | 1 piece |
| 1.000.099 | E1023436 | 0.1 g | insulation cap for V-terminal clamp size 1,2,3 | 0.1 g | 1 piece |
| 1.003.286 | Q1024595 | 0.311 kg | supplementary set for V-terminal size 1,2,3 set = 3 pieces V-clamps, cover shroud and labels for size 1, 2 and 3 | 0.232 kg | 1 set |
| 1.001.667 | F1023275 | 0.23 kg | adapter for double terminal L3 | 0.25 kg | 1 piece |
| 1.003.377 | Y1024579 | 1.743 kg | supplementary set for multiple termination, top terminal 2 cable lugs Cu/Al: up to max. 300 mm ² round stranded, sectoral stranded, 3 cable lugs Cu: up to max. 150 mm ² round stranded, sectoral stranded, M = 32-38 Nm | 1.743 kg | 1 set |
| 1.002.255 | B1024582 | 1.682 kg | supplementary set for multiple termination, bottom terminal 2 cable lugs Cu/Al: up to max. 300 mm ² round stranded, sectoral stranded, 3 cable lugs Cu: up to max. 150 mm ² round stranded, sectoral stranded, M = 32-38 Nm | 1.682 kg | 1 set |

ВЯРНО С
ОРИГИНАЛА



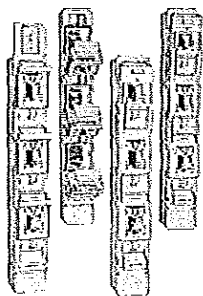
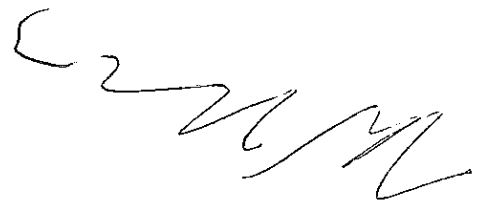
Mersen reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

IEC FUSE SWITCH DISCONNECTORS

NH VERTICAL FUSE SWITCH DISCONNECTOR



MULTIVERT® NH vertical fuse switch disconnectors meet all functions of NH fuse switch disconnectors. They are designed for installation on to bus bars in triple pole arrangements.

MULTIVERT® 630A are for installation on to 185mm bus bar systems.

MULTIVERT® 630A are designed for NH fuse-links in accordance with IEC/EN 60269-2, VDE 0636-2, size 3: 630A.

The system is a modular system, that allows the installation of individual components. MULTIVERT® offer the user the possibility of fast and easy installation as well as a high degree of protection during installation and maintenance.

TECHNICAL DATA OVERVIEW

| | |
|-------------------|--|
| Voltage AC | 690 VAC |
| Amper (A) | 630 A |
| Size per Standard | 3 |
| SCCR | Ue = AC 400 V; Ie = 630 A 80kA Ue = AC 500 V; Ie = 630 A 80kA Ue = AC 690 V; Ie = 500 A 80kA |
| Mounting | bus bar system 185 mm |
| Switchability | 1 x triple pole, 3 x single pole |
| Number of Poles | 3 |

FEATURES & BENEFITS

- Installation on to 185mm bus bar system
Standard design with M 12 screws; M = 35 ±3Nm
Direct installation without drilling with hooked clamps possible
- Symmetrical switch - top/bottom cable terminal connection
- Touch protection IP 30 with central cover
- Varieties of cable termination: bolt, insert nut, V-terminal
- Integrated measuring transformer (optional) with unchanged installation depth
- Safe on load connection/disconnection in accordance with IEC 60947-3

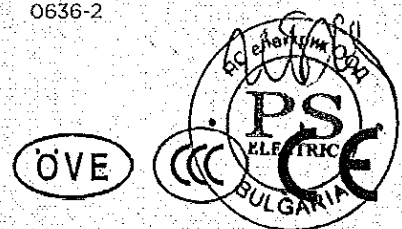
APPLICATIONS

- Feeder pillars
- Transformer substations
- Switch boards for industrial applications
- Residential and industrial distribution units
- Cable distribution cabinets

STANDARD

- IEC/EN 60 947-3
For NH-fuse links size 3 in accordance with IEC/EN 60 269-2, VDE 0636-2

ВАРНО С
ОРИГИНАЛ



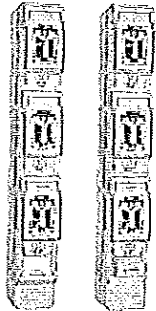
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

MULTIVERT® 630A

Size 3, 690VAC

PRODUCT RANGE

MULTIVERT® 630 A size 3 185mm 3 x single pole switching

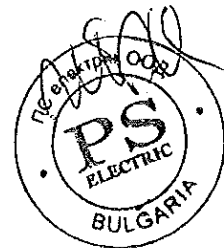


1.300.000 1.320.000

| Product number | Item number | Cable termination component | Design | Weight kg | Package |
|----------------|-------------|--|--|-----------|---------|
| 1.300.000 | K1002188 | 3 M12 bolts | - | 5.43 | 1 piece |
| 1.310.000 | W1023220 | 3 M12 insert nuts | - | 5.38 | 1 piece |
| 1.320.000 | X1023221 | V-terminal for V-terminal clamps size 1,2,3 | - | 5.21 | 1 piece |
| 1.320.900 | Y1023222 | V-terminal, 2 terminals per phase for V-terminal clamps size 1,2,3 | - | 6.89 | 1 piece |
| 1.300.100 | W1027153 | 3 M12 bolts | MULTIVERT® 1.200.000 with cabling of instrument leads for indication facilities | 5.10 | 1 piece |
| 1.300.085 | A1023247 | 3 M12 bolts | MULTIVERT® 1.300.000 with integrated C.T. 600/5A, 5,00 VA, class 1 for single pole measurement (ready fitted in pole 1) | 5.60 | 1 piece |
| 1.300.066 | Z1023223 | 3 M12 bolts | MULTIVERT® 1.300.000 with integrated C.T. 600/5A, 5,00 VA, class 0,5; calibrated, for single pole measurement (ready fitted in pole 1) | - | 1 piece |
| 1.300.095 | B1023248 | 3 M12 bolts | MULTIVERT® 1.300.000 with integrated C.T. 600/5A, 5,00 VA, class 1 for triple pole measurement | 6.30 | 1 piece |
| 1.300.076 | Z1023246 | 3 M12 bolts | MULTIVERT® 1.300.000 with integrated C.T. 600/5A, 5,00 VA, class 0,5; calibrated, for triple pole measurement | - | 1 piece |
| 1.330.000 | Q1023261 | M12 bus bar terminal | MULTIVERT® with lateral bus bar terminals bus bar coupler switch cable terminal connection to right or left side possible | 6.10 | 1 piece |

¹weight in kg per piece or set including package

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

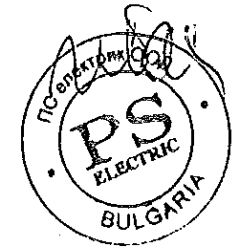
MULTIVERT® 630A

Size 3, 690VAC

TECHNICAL DATA IN ACCORDANCE WITH EN / IEC 60947

| | 630 A 1 x triple pole switching | 630 A 3 x single pole switching |
|--|------------------------------------|------------------------------------|
| Number of poles/phases | 3 | 3 |
| Size | 3 | 3 |
| Conventional free air thermal current with NH-fuse links I_{th} | 630 A | 630 A |
| Max. power dissipation of fuse links P_n | 48 W | 48 W |
| Conventional free air thermal current with solid links I_{th} | 800 A | 800 A |
| Max. power dissipation of solid links P_n | 17,5 W | 17,5 W |
| Utilization category to IEC/EN 60947-3 $U_e = AC 400 V; I_e = 630 A$ $U_e = AC 500 V; I_e = 630 A$ $U_e = AC 690 V; I_e = 630 A$ | AC 23 B AC 22 B AC 21 B | AC 23 B AC 22 B AC 21 B |
| Rated operational voltage U_e | 690 V | 690 V |
| Rated insulation voltage U_i | 1000 V | 1000 V |
| Rated impulse withstand voltage U_{imp} | 12 kV | 12 kV |
| Rated frequency | 50 ... 60 Hz | 50 ... 60 Hz |
| Degree of protection | IP 30 | IP 30 |
| Degree of pollution | 3 | 3 |
| Rated duty | uninterrupted duty | uninterrupted duty |
| Rated conditional short-circuit current with fuse links $U_e = AC 400 V; I_e = 630 A$ $U_e = AC 500 V; I_e = 630 A$ $U_e = AC 690 V; I_e = 500 A$ | 80 kA 80 kA 80 kA | 80 kA 80 kA 80 kA |
| Rated short circuit making capacity with solid links I_{cm} | 16 kA _{sw} | 16 kA _{sw} |
| Rated short-time withstand current I_{sw} | 12.6 kA / 1 s | 12.6 kA / 1 s |
| Power dissipation by I_{th} without NH-fuse links | 95 W | 95 W |
| Power dissipation by I_{th} 800A without solid links | 153 W | 153 W |
| Installation mode | bus bar installation | bus bar installation |
| Cable terminal connection | | |
| Standard cable terminal | M12 | M12 |
| for cable lugs Cu max. | 300 mm ² | 300 mm ² |
| for cable lugs Al max. | 300 mm ² | 200 mm ² |
| for copper bars with max. dimensions | 40 x 10 mm | 40 x 10 mm |
| V-shaped lugs for V-terminal clamps | 35 - 240 mm ² | 35 - 240 mm ² |
| Bus bar terminal connection | | |
| Standard bus bar terminal | M12 | M12 |
| Hooked clamp for bus bar with thickness | 5 ... 10 mm | 5 ... 10 mm |
| Bus bar system | 185 mm | 185 mm |

ВЯРНО С
ОРИГИНАЛА



Mersen reserves the right to change specifications or correct, without notice, any information contained in this datasheet.

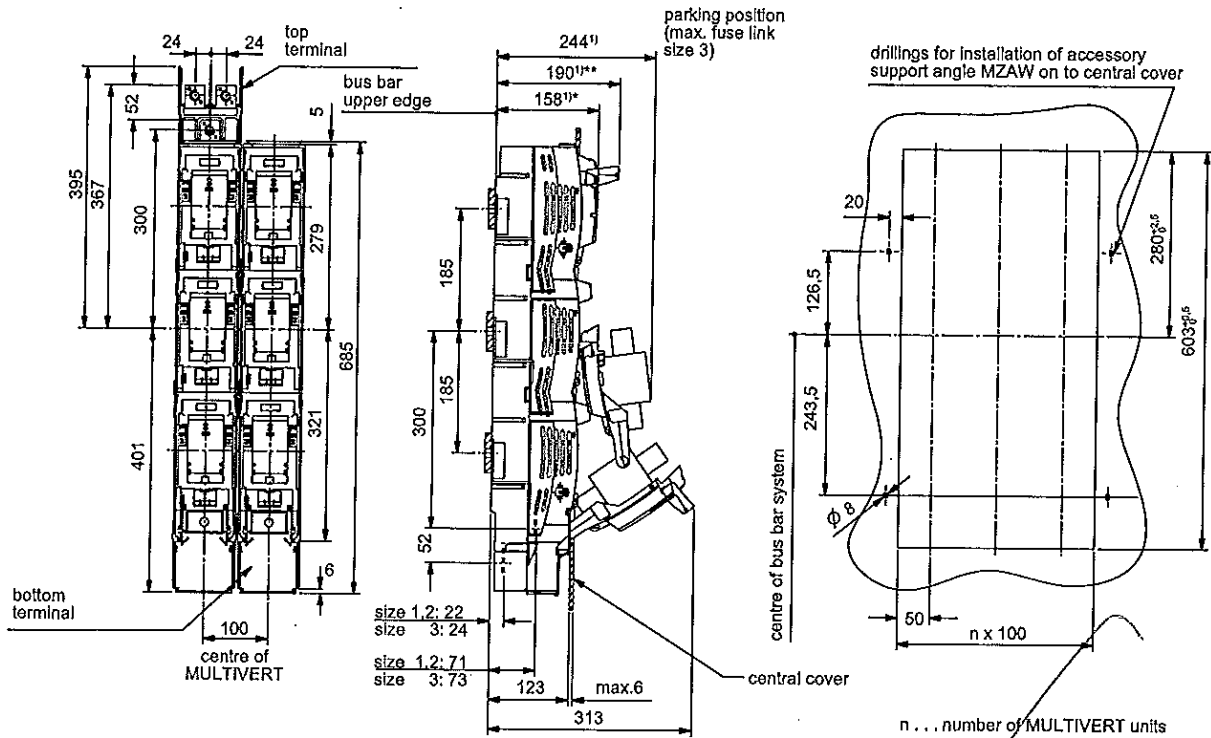
MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 3 x single pole switching
 direct installation with screws on to 185mm bus bar system

(M01152b)



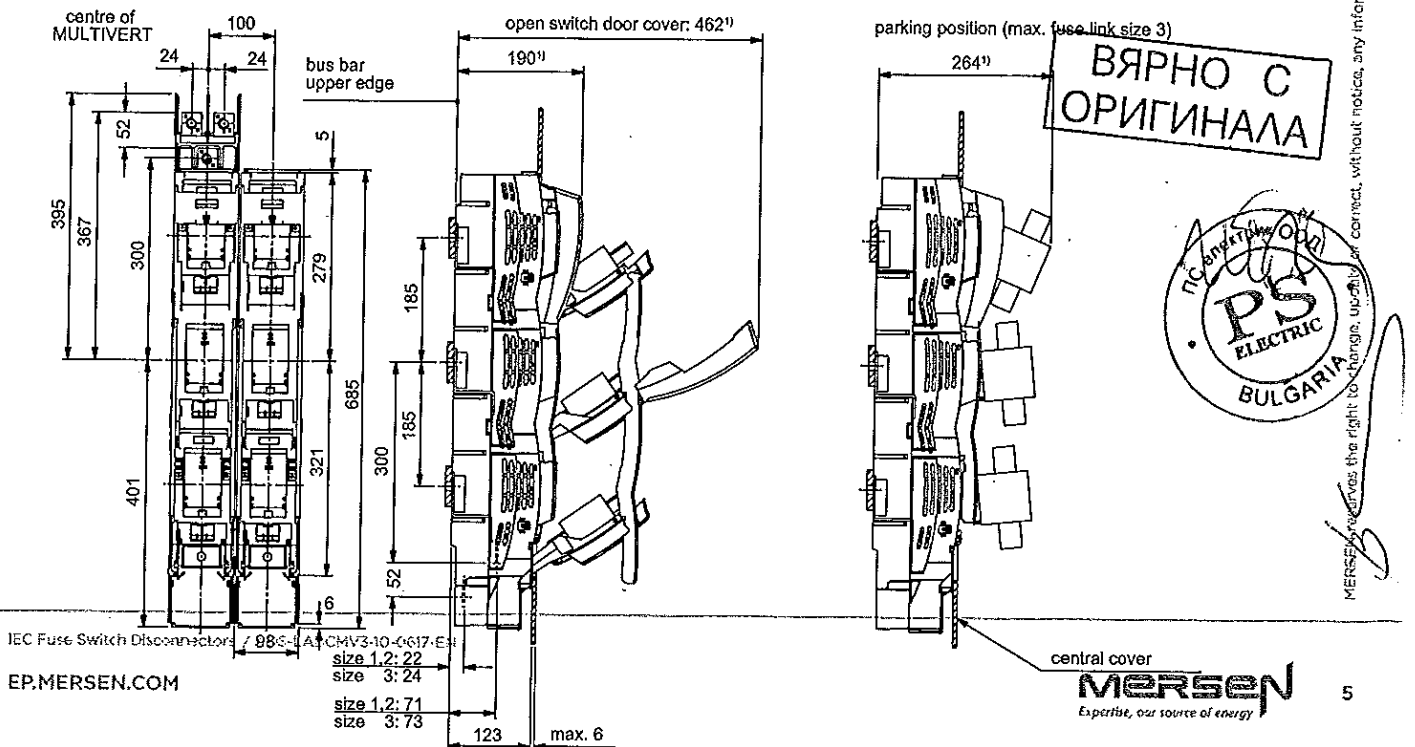
1) dimension from upper edge of bus bar

- * 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
- ** 190 mm handle in open position (fixed) = switching position

Dimensions in mm

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 1 x triple pole switching
 direct installation with screws on to 185mm bus bar system

(M01153b)



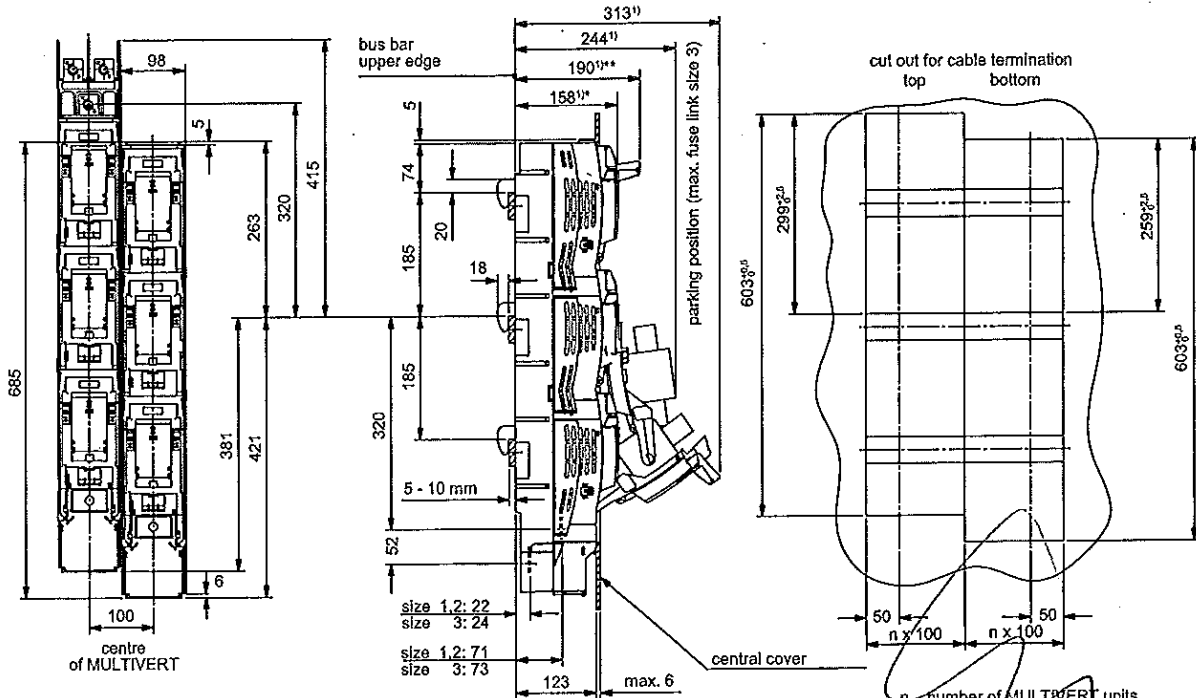
MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 3 x single pole switching
 direct installation without drilling with hooked clamps on to 185mm bus bar system

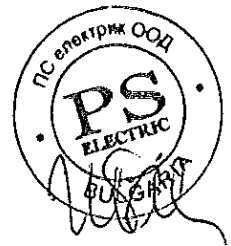
(M01154b)



- 1) dimensions form upper edge of bus bar
- * 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
- ** 190 mm handle in open position (fixed) - switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change specifications or correct, without notice, any information contained in this datasheet.

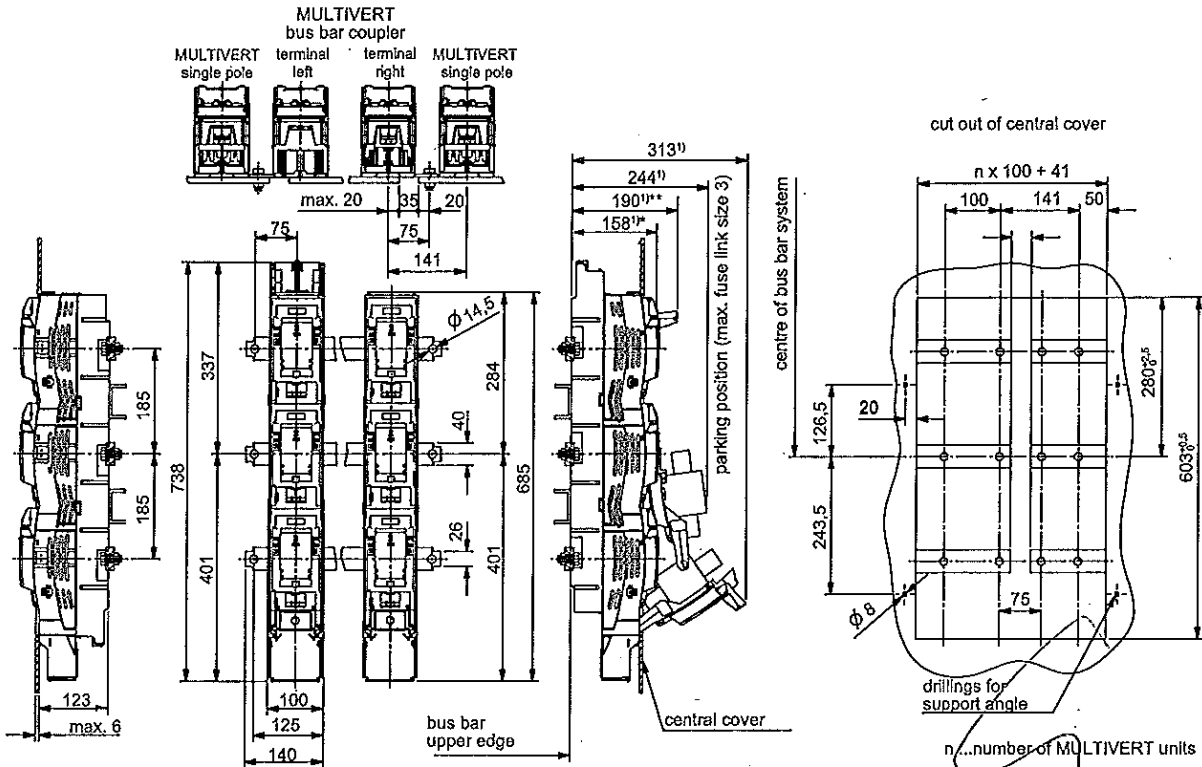
MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A bus bar coppler switch with lateral terminals
3 x single pole switching

(M01159a)

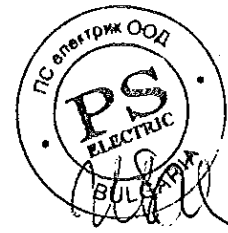


1) dimensions form upper edge of bus bar

- * 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
- ** 190 mm handle in open position (fixed) - switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change the data or correct, without notice, any information contained in this datasheet.

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

| | |
|---|---|
| Product | Low-Voltage Fuse-Switch-Disconnecter |
| Name and address of the applicant | Mersen France SB SAS 15 Rue Jacques de Vaucanson, 69720 Saint Bonnet de Mure, France |
| Name and address of the manufacturer | Mersen France SB SAS 15 Rue Jacques de Vaucanson, 69720 Saint Bonnet de Mure, France |
| Name and address of the factory | Mersen CZ s.r.o. Pardubická 437, 53304 Sezemice, Czech Republic |
| Note: When more than one factory, please report on page 2 | <input type="checkbox"/> Additional Information on page 2 |
| Ratings and principal characteristics | AC-21B: Ue = AC 690 V, Ie = 630 A; AC-22B: Ue = AC 500 V, Ie = 630 A; AC-23B: Ue = AC 400 V, Ie = 630 A; For use with fuse-links NH3/gG with power dissipation of max. 48 W. See also page 6 of test report. |
| Trademark (if any) | MERSEN |
| Customer's Testing Facility (CTF) Stage used | - |
| Model / Type Ref. | MULTIVERT 630 |
| Additional information (if necessary may also be reported on page 2) | <p>Марияна Видинова Эксперт ФСА и Планиране Отдел „Планиране и контрол на обществените поръчки“ <input type="checkbox"/> ЧЕЗ Разпределение България АД</p> |
| A sample of the product was tested and found to be in conformity with | <p>pole operated. Also found to 1:2012; AMD2:2015 used in 10: AMD2:2014</p> |
| As shown in the Test Report Ref. No. which forms part of this Certificate | <p>0947-3:2008 0947-3:2008/AMD1:2012</p> |
| This CB Test Certificate is issued by the National | <p>PS ELECTRIC ПС ЕЛЕКТРОНИК ООД</p> |

„ПС електрик“ ООД

Списък на отделните изпитания

Вертикален разединител 630 A Mersen

8.3.3 Тест I: Характеристики при нормален режим на работа.

- 8.3.3.1 Проверка при нарастване на температурата.
- 8.3.3.2 Тест на диелектричните свойства.
- 8.3.3.3 Включвателна и изключвателна способност при ток на късо съединение.
- 8.3.3.3.5 Поведение на апаратурата по време на тестовете за включвателна и изключвателна способност при ток на късо съединение
- 8.3.3.3.6 Състояние на апаратурата след приключване на тестовете за включвателна и изключвателна способност при ток на късо съединение
- 8.3.3.4 Диелектрична проверка
- 8.3.3.5 Ток на утечка
- 8.3.3.6 Проверка при нарастване на температурата
- 8.3.3.7 Издръжливост на задвижващия механизъм
 - 8.2.5.2.1 Зависимо и независимо ръчно управление
 - 8.2.5.2.2 Зависимо моторно задвижване
 - 8.2.5.2.3 Независимо моторно задвижване

8.3.4 Тест II: Издръжливост при номинални условия

- 8.3.4.1 Тест при номинални условия
- 8.3.4.2 Диелектрична проверка
- 8.3.4.3 Ток на утечка
- 8.3.4.4 Проверка при нарастване на температурата

8.3.5 Тест III: Издръжливост в режим на късо съединение

- 8.3.5.1 Тест за издръжливост при кратковременно късо съединение
- 8.3.5.2 Включвателна способност при късо съединение
- 8.3.5.3 Диелектрична проверка
- 8.3.5.4 Ток на утечка
- 8.3.5.5 Проверка при нарастване на температурата

8.3.6 Тест IV: Условен ток на късо съединение

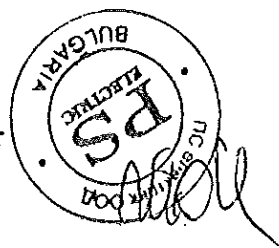
- 8.3.6.2 Условия за проверка за условен ток на късо съединение
- 8.3.6.3 Диелектрична проверка
- 8.3.6.4 Ток на утечка
- 8.3.6.5 Проверка при нарастване на температурата

8.3.7 Тест V: Издръжливост в режим на претоварване

- 8.3.7.1 Тест при претоварване
- 8.3.7.2 Диелектрична проверка
- 8.3.7.3 Ток на утечка
- 8.3.7.4 Проверка при нарастване на температурата

8.4 Тест V: Тестове за електромагнитна съвместимост

- 8.4.1 Имунитет
- 8.4.2 Емисии



Дата: 28.12.2017 г. на основание чл. 2 от ЗЗЛД
Съставил: Н. Нико

Clause Requirement - Test Result - Remark Verdict

8.3.3 TEST SEQUENCE I: GENERAL PERFORMANCE CHARACTERISTICS

- 8.3.3.1 Temperature-rise
- 8.3.3.2 Test of dielectric properties
- 8.3.3.3 Making and breaking capacity
- 8.3.3.3.5 Behaviour of the equipment during making and breaking capacity tests

8.3.3.3.6 Condition of the equipment after making and breaking capacity tests

- 8.3.3.4 Dielectric verification
- 8.3.3.5 Leakage current
- 8.3.3.6 Temperature-rise verification
- 8.3.3.7 Strength of actuator mechanism
- 8.2.5.2.1 Dependent and independent manual operation
- 8.2.5.2.2 Dependent power operation
- 8.2.5.2.3 Independent power operation

8.3.4 TEST SEQUENCE II: OPERATIONAL PERFORMANCE CAPABILITY

- 8.3.4.1 Operational performance test
- 8.3.4.2 Dielectric verification
- 8.3.4.3 Leakage current
- 8.3.4.4 Temperature-rise verification

8.3.5 TEST SEQUENCE III: SHORT-CIRCUIT PERFORMANCE CAPABILITY

- 8.3.5.1 Short-time withstand current test
- 8.3.5.2 Short-circuit making capacity
- 8.3.5.3 Dielectric verification
- 8.3.5.4 Leakage current
- 8.3.5.5 Temperature-rise verification

8.3.6 TEST SEQUENCE IV: CONDITIONAL SHORT-CIRCUIT CURRENT

- 8.3.6.2 Test conditions for conditional short-circuit current test
- 8.3.6.3 Dielectric verification
- 8.3.6.4 Leakage current
- 8.3.6.5 Temperature-rise verification

8.3.7 TEST SEQUENCE V: OVERLOAD PERFORMANCE CAPABILITY

- 8.3.7.1 Overload test
- 8.3.7.2 Dielectric verification
- 8.3.7.3 Leakage current
- 8.3.7.4 Temperature-rise verification

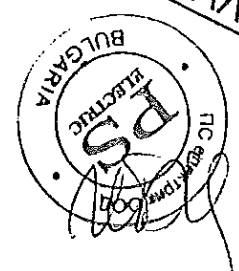
8.4 ELECTROMAGNETIC COMPATIBILITY TESTS

- 8.4.1 Immunity
- 8.4.2 Emission

[Handwritten signature]

[Handwritten mark]

ВЯРНО С
ОРИГИНАЛ



[Handwritten signature]



bmwfw

Bundesministerium für
Wissenschaft, Forschung und Wirtschaft

4

Die Nationale Akkreditierungsstelle / *The National Accreditation Body*

AKKREDITIERUNG AUSTRIA

bestätigt die Akkreditierung der Rechtsperson / *confirms the accreditation of*

AIT Austrian Institute of Technology GmbH

Donau-City-Straße 1, A-1220 Wien

Identifikationsnummer / *ID-number*: **0001**

als / as

Prüfstelle / *Testing Laboratory*
gemäß / *according to EN ISO/IEC 17025:2005*

Datum der Erstakkreditierung / *Initial date of accreditation*: **01.12.1998**

Standorte/Organisationseinheiten / *sites/units*:
Standort Tulln, Konrad-Lorenz-Straße 24, A-3430 Tulln
Standort Wien, Giefinggasse 2, A-1210 Wien

ВЯРНО С
ОРИГИНАЛА

Informationen zum Akkreditierungsumfang und zu Akkreditierung Austria / *Information about the accreditation scope and Akkreditierung Austria* <http://www.bmwfw.gv.at/akkreditierung>

Die Akkreditierung wurde mittels Bescheid erteilt und damit bestätigt, dass die Konformitätsbewertungsstelle die Anforderungen der **EN ISO/IEC 17025:2005** erfüllt. Diese Bestätigung der Akkreditierung darf nur unverändert weiterverbreitet werden.

The accreditation was granted by a decree which confirms, that the Conformity Assessment Body fulfills the requirements of EN ISO/IEC 17025:2005. This confirmation of accreditation may not be reproduced other than in full.

на основание чл. 2 от ЗЗЛД

11.02.2016
Datum / *Date*

Dipl.-Ing. Dr. Norman Brunner
Leiter Akkreditierung Austria / *Head Akkreditierung Austria*



EU DECLARATION OF CONFORMITY / DECLARATION DE CONFORMITE UE

We / Nous **Mersen France SB** sas 15, Rue Jacques Vaucanson 69720 Saint Bonnet de Mure France
Website / Site web **ep-fr.mersen.com** (this declaration is downloadable / cette déclaration est téléchargeable)

Certify that products with the registered trade mark / Certifions que les produits de la marque Mersen ® ,

- NH vertical fuse switch disconnectors type Multivert 690V AC 1-pole and 3-pole switching
- Size 00 - Multivert 160A, 100mm, 185mm bus bar distance
- Size 1 - Multivert 250A
- Size 2 - Multivert 400A, 800A, 1260A with neutral links.
- Size 3 - Multivert 630A, 1000A with neutral links, 1260A, 1600A with neutral links 630 kVA/910A.

Provided that they are installed, maintained and used as intended and in accordance with the current installation standards according to manufacturer's recommendations, comply with the following Directives

Sous réserve d'installations, d'entretien et d'utilisation conformes à leur destination, aux normes d'installations applicables et aux instructions du constructeur, satisfont aux exigences des Directives/suivantes:

Low Voltage 2014/35/EU
RoHS 2011/65/EU

Basse Tension 2014/35/UE
RoHS 2011/65/UE

And are in compliance with the following standards / et sont conformes aux normes suivantes:

- IEC 60947-1 Ed.2007 / AMD1 : 2010 / AMD2 : 2014
- IEC 60947-3 Ed.2008 / AMD1 : 2012 / AMD2 : 2015

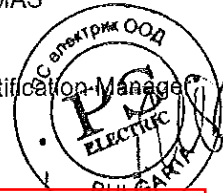
ВЯРНО С
ОРИГИНАЛА

Saint Bonnet de Mure le 12 Octobre 2017

Name / Nom : Bruno THOMAS

Position / Fonction : Product Certification Manager

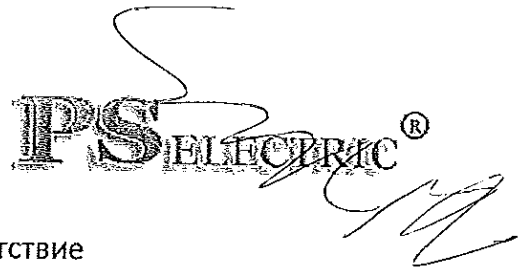
Signature / Signature



на основание чл. 2 от ЗЗЛД

| | | | | | |
|-------------------|---|---|---|---|---|
| DECLARATION CE N° | 0 | 1 | 6 | 7 | G |
|-------------------|---|---|---|---|---|

5



Декларация за съответствие

Ние Мерсен Франция

Интернет страница er-fr.mersen.com

Декларираме, че продуктите с регистрирана търговска марка

Mersen

- NH Вертикални разединители с предпазители Multivert 690V AC- 1-полюсно и 3-полюсно изключване
- Размер 00 – Multivert 160A, 100mm, 185mm ,разстояние м/у шините
- Размер 1 - Multivert 250A
- Размер 2 - Multivert 400A, 800A, 1260A с неутрани вложки
- Размер 3 - Multivert 630A, 1000A с неурални вложки, 1260A, 1600A с неурални вложки, 630kVA/910A

При условие че са инсталирани, поддържани и използвани по предназначение и в съответствие с настоящите стандарти за инсталиране съгласно препоръките на производителя, да отговарят на следните директиви

Low voltage 2014/35/EU

ROHS 2011/65/EU

И са в съответствие със следните стандарти:

IEC 60947-1 Ed. 2007 / AMD1 :2010 / AMD2:2014, IEC 60947-3 Ed.2008 / AMD1 :2012 / AMD2 : 2015

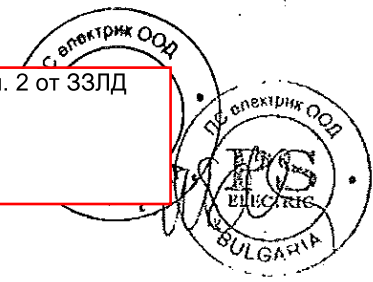
Дата 12.10.2017г. Подписи и печат.

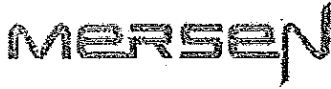
ВЯРНО С
ОРИГИНАЛА

04.01.2018

Н. Никол

на основание чл. 2 от ЗЗЛД





Reach status DECLARATION

Nous/We **Mersen France SB SAS 15, Rue de Vaucanson 69720 Saint-Bonnet de Mure Cedex France**

Hereby declare that products with the registered trade mark Mersen ®,
Certifions par ce document que les produits de la marque Mersen ®,

NH vertical fuse switch disconnecter Multivert sizes 00, 1, 2, 3.

do not contain any of the 174 SVHC substances at a rate of more than 0.1% by weight according to the current valid candidate list nor any substance of Annex 17, according to ECHA since July, 07, 2017.
The present declaration is based on a permanent communication with our suppliers .
In case of any change, we would inform ECHA and our customers according to Reach requests.

Mersen France SB is not concerned by the Reach registration procedure, (being neither a producer nor an importer of substances/preparations).
We periodically review the ECHA candidate list , and we ask our suppliers to commit to deliver pieces , parts and products , free of SVHC substances at a rate of more than 0.1% by weight , for every order .

As an article Downstream user in the value chain, Mersen will :

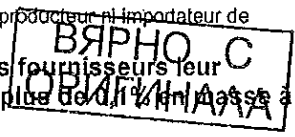
- Continue to drive a strict policy of Occupational Health and Safety based on up to date versions of Safety Data Sheets.
- Monitor by-the-supplier-identified uses of Substances and Preparations contained in our products,
- Seek out possibilities to substitute or reformulate in anticipation of possible disappearances of Substances or products,

Mersen's active communication policy with our suppliers and customers may help avoid any adverse effect of the Reach Regulation on our products, in order to continue ensuring and enhancing the safety of people and property.

Ne contiennent aucune des 174 substances SVHC à plus de 0,1% en masse de la liste candidate, ni substance de l'Annexe 17 de l' ECHA depuis le 07 juillet 2017.

La déclaration présente est basée sur une communication permanente avec nos fournisseurs .
En cas de changement, nous informerions l'ECHA et nos clients selon les exigences Reach .

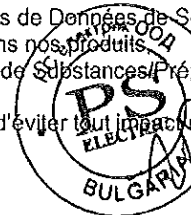
Mersen France SB n'est pas concernée par la procédure d'enregistrement (ni producteur ni importateur de substance/préparation).
Nous vérifions périodiquement la liste candidate de l'ECHA , et demandons à nos fournisseurs leur engagement de nous livrer des pièces/produits libres de substance SVHC à plus de 0,1% en masse à chaque commande.



En tant qu'utilisateur aval d'articles dans la chaine d'approvisionnement , Mersen :

- Poursuit avec rigueur une politique de Santé/Sécurité sur la base des versions à jour des Fiches de Données de Sécurité,
- Surveille les usages identifiés par les fournisseurs des Substances et Préparations utilisées dans nos produits,
- S'informe des possibilités de substitution/reformulation pour anticiper d'éventuelles disparitions de Substances/Préparations.

La politique active de communication de Mersen avec ses fournisseurs et clients doit permettre d'éviter tout impact négatif de Reach sur nos produits, afin de continuer à servir la Sécurité des biens et des personnes.

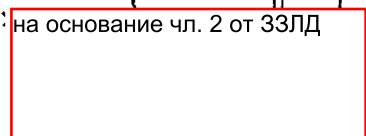


Saint Bonnet de Mure le : 31 juillet 2017 Nom / Name : Bruno THOMAS

Fonction / Position : Europe Product Certification and High Concerned Material Manager

Signature / Signature : на основание чл. 2 от 33ЛД

DECLARATION REACH N° 0 0 6 8 C



FERRAZ SHAWMUT IS NOW MERSEN



Saint Bonnet de Mure, 2017 January 23rd

PRODUCT DECLARATION LETTER

MERSEN FRANCE SB
15, Rue de Vaucanson
69720 Saint Bonnet de Mure Cedex
FRANCE

Since the m.Schneider company has been fully acquired by Mersen in 2010, all products manufactured by m.Schneider are now branded Mersen and are strictly identical in characteristics.

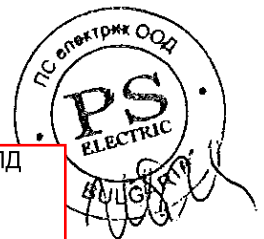
Therefore all type tests under m.Schneider brand are fully valid for Mersen branded products.

The name of the apparels remains the same: Multivert, Multibloc and BSL.

ВЯРНО С
ОРИГИНАЛА

For and on behalf of MERSEN FRANCE SB,

Name: C.ROCHE
Position: Marketing Product Manager
Signature:



на основание чл. 2 от ЗЗЛД

5



23.01.2017

Писмо Декларация за Продукт

Мерсен Франция

След като компания М Шнайдер е напълно придобита от Мерсен Франция пред 2010, всички продукти произвеждани от М Шнайдер са вече с марка Мерсен и са напълно идентични по характеристики.

Следователно всички типови изпитания направени за продукти на М Шнайдер са приложими за продуктите на Мерсен.

Имената на продуктите са остават непроменени: Multivert, Multibloc, BSL

За и от името на Мерсен Франция

Име: C.ROCHE

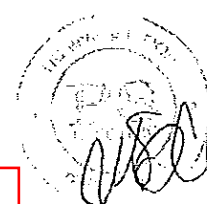
на основание чл. 2 от ЗЗЛД

Позиция: Подукт

Подпис: Подпис

на основание чл. 2 от ЗЗЛД

Н. Николов



ВЯРНО С
ОРИГИНАЛА

04.01.2018



ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

Долуподписаният, “ПС ЕЛЕКТРИК” ООД,

(име на производителя или неговия упълномощен представител, наименование на дружеството /фирмата производител или негов представител)

9700 гр. Шумен, бул. “Мадара” № 12,
(адрес)

декларирам на собствена отговорност, че продуктът

Триполюсен вертикален разединител с предпазители размер NH2 400A тип Multivert 400A
(наименование и търговска марка, тип или модел, предназначение)

произведен от

Mersen Osterreich Wien GMBH

(място на производство на разглеждания продукт)

за който се отнася тази декларация, е произведен в условията на въведена и поддържана от производителя система за производствен контрол и е в съответствие със следния(те) стандарт(и), Българско техническо одобрение (БТО) или друг(и) нормативен(ни) акт(актове):

- БДС EN 60947-1:2007 – Комутационни апарати за ниско напрежение. Част 1; Общи правила (IEC 60947-1:2007)
- БДС EN 60947-3:2002 – Комутационни апарати за ниско напрежение. Част 3; Товарови прекъсвачи, разединители, товарив прекъсвач-разединители и апарати, комбинирани с предпазители (IEC 60947-3:1999+ Поправка юли 1999)

(наименование и/или номер и дата на издаване на стандарта(тите), БТО или друг(и) нормативен(ни) акт (актове)

и е оценен положително по реда и условията на Наредбата за съществените изисквания и оценяване на съответствието на електрически съоръжения, предназначени за използване в определени граници на напрежението, приета с ПСМ№182 от 06.07.2001г., обн. ДВ, бр.62 от 13.07.2001г.

Продуктът отговаря на Техническата спецификация на стандарта за материал, вкл. на „Характеристика на материала“ и „Съответствие на предложеното изпълнение с нормативно-техническите документи.

Декларирам, че ми е известна отговорността, която нося съгласно чл. 313 от НК.

13.03.2018 год.

гр. Шумен

(място и дата на издаване)

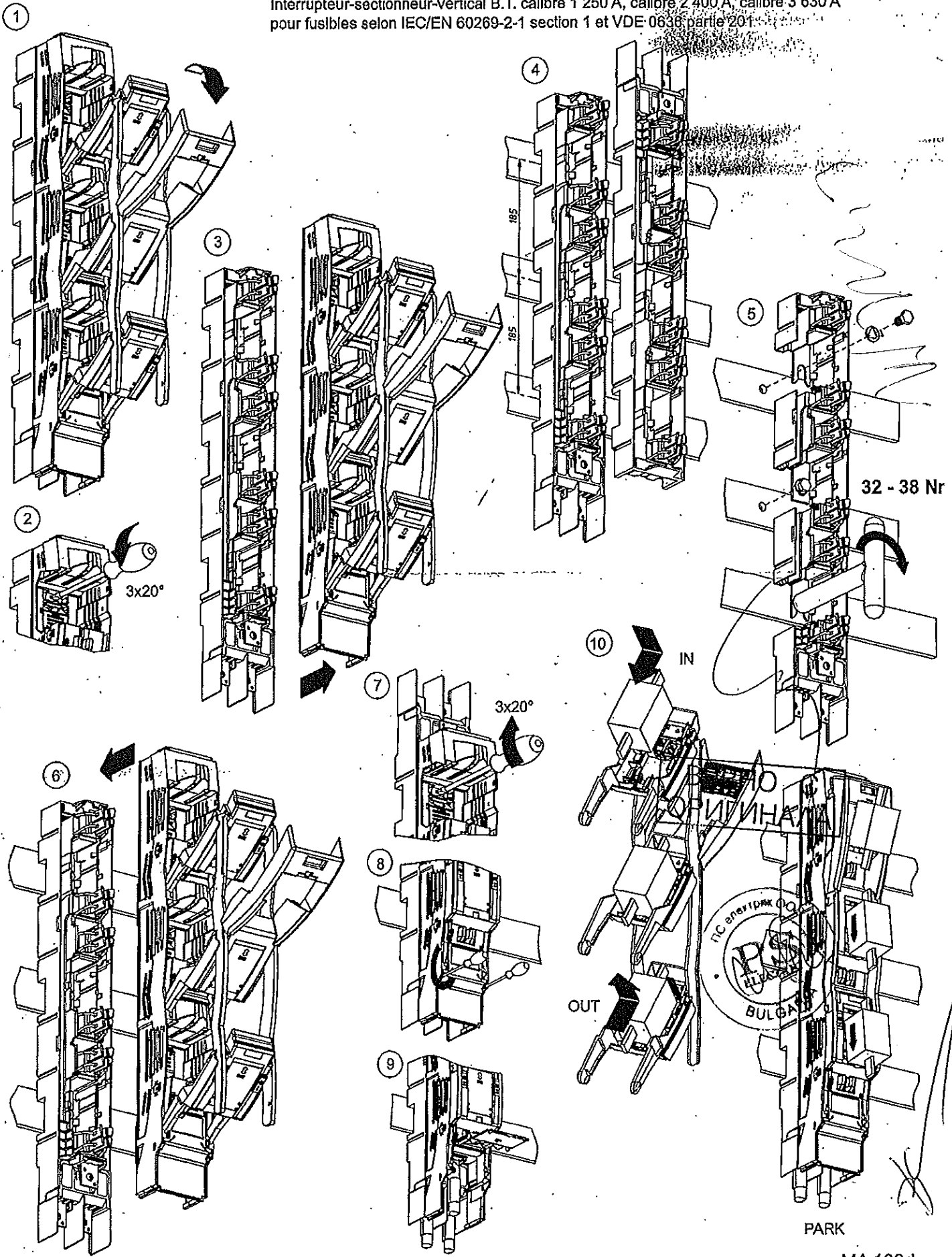
Божидар Маринов

на основание чл. 2 от ЗЗЛД

(фамилия, д
или

MULTIVERT® 250 A, 400 A, 630 A

NH-Sicherungs-Lastschaltleiste Größe 1 250A, Größe 2 400A, Größe 3 630A
 für NH-Sicherungs-Einsätze nach IEC/EN 60269-2-1, section 1 und VDE 0636 Teil 201
 NH-vertical fuse switch disconnecter size 1 250A, size 2 400A, size 3 630A
 for NH-fuse links in accordance with IEC/EN 60269-2-1, section 1 and VDE 0636 part 201
 Interrupteur-sectionneur-vertical B.T. calibre 1 250 A, calibre 2 400 A, calibre 3 630 A
 pour fusibles selon IEC/EN 60269-2-1 section 1 et VDE 0636 partie 201



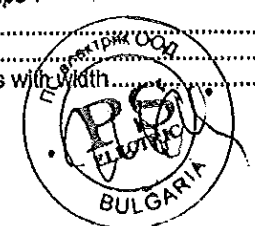
MULTIVERT® 250 A, 400 A, 630 A

NH-Sicherungs-Lastschaltleiste Größe 1 250A, Größe 2 400A, Größe 3 630A
 für NH-Sicherungs-Einsätze nach IEC/EN 60269-2-1, section 1 und VDE 0636 Teil 201
 NH-vertical fuse switch disconnecter size 1 250A, size 2 400A, size 3 630A
 for NH-fuse links in accordance with IEC/EN 60269-2-1, section 1 and VDE 0636 part 201
 Interrupteur-sectionneur-vertical B.T. calibre 1 250 A, calibre 2 400 A, calibre 3 630 A
 pour fusibles selon IEC/EN 60269-2-1 section 1 et VDE 0636 partie 201

IEC/EN 60947

| | |
|---|--|
| MULTIVERT | MULTIVERT |
| NH-Sicherungs-Lastschaltleiste | NH-vertical fuse switch disconnecter |
| Baugröße | size |
| Anzahl der Pole / Phasen | number of poles / phases |
| Konventioneller thermischer Strom in freier Luft Ith mit NH-Sicherungs-Einsätzen | conventional free air thermal current Ith with NH-fuse links |
| Max. zulässige Bemessungsleistungsabgabe Pn der NH-Sicherungs-Einsätze | max. allowed rated power dissipation Pn of NH-fuse links |
| Konventioneller thermischer Strom in freier Luft Ith mit Trennmessern ¹⁾ | conventional free air thermal current Ith with NH-solid links ¹⁾ |
| Max. zulässige Bemessungsleistungsabgabe Pn der Trennmesser | max. allowed rated power dissipation Pn of NH-solid links |
| Gebrauchs-.....Bemessungsbetriebs-.....Bemessungsbetriebs-..... | utilization :.....rated operationalrated operation |
| ...kategoriespannung Uestrom Ie | categoryvoltage Uecurrent Ie |
| ... AC 23B 400 V AC | AC 23B 400 V AC |
| ... AC 22B 500 V AC | AC 22B 500 V AC |
| ... AC 21B 690 V AC | AC 21B 690 V AC |
| Bemessungsbetriebsspannung Ue | rated operational voltage Ue |
| Bemessungsisolationsspannung Ui | rated insulation voltage Ui |
| Bemessungsstoßspannungsfestigkeit Uimp | rated impulse withstand voltage Uimp |
| Bemessungsfrequenz | rated frequency |
| Schutzart (mit Zentralabdeckung) | degree of protection (with central cover) |
| Verschmutzungsgrad | pollution degree |
| Bemessungsbetriebsart | rated duty |
| Bemessungs-Kurzschluß-Einschaltvermögen Icm mit Trennmessern ¹⁾ (Spitzenwert) | rated short circuit making capacity Icm with solid links ¹⁾ (peak value) |
| Bedingter Bemessungskurzschlußstrom bei Schutz durch Sicherungen | rated short circuit making capacity with fuse links |
| 400 V AC | 400 V AC |
| 500 V AC | 500 V AC |
| 690 V AC | 690 V AC |
| 690 V AC | 690 V AC |
| Bemessungskurzzeitstromfestigkeit Icw mit Trennmessern ¹⁾ | rated short time withstand current Icw with solid links ¹⁾ |
| Bemessungsleistungsabgabe bei Ith ohne NH-Sicherungs-Einsätze | rated power dissipation by Ith without NH-fuse links |
| Bemessungsleistungsabgabe bei Ith ohne Trennmesser | rated power dissipation by Ith without NH-solid links |
| Kabelanschluss: | cable terminal connections: |
| Bolzen / Einpressmutter | bolt / insert nut |
| für Kupferschienen mit max. Breite | for copper bus bars with max. width |
| für Kabelschuhe max: | for cable lugs max: |
| V-Anschlusslaschen für V-Anschlussklemmen ²⁾ | V-shaped terminal for V-clamps ²⁾ |
| Sammelschienenanschluss: | bus bar terminals: |
| Standardanschluss | standard |
| Krallenklemme ³⁾ für SaS-Stärke | hooked clamps ³⁾ for bus bars with width |

ВЪРНО
ОРИГИНАЛ



Achtung!
 Inbetriebnahme und Wartung nur durch Fachpersonal und/oder unterwiesene Personen!
 Beachten Sie die Betriebs- und Montageanleitung!

Warning!
 Only qualified or authorized personnel may commission and maintain these devices!
 Follow the operating instructions!

Attention!
 Mise en service et maintenance uniquement par des personnes qualifiées ou instruitées.
 Respectez les instructions de montage!

MULTIVERT® 250 A, 400 A, 630 A

NH-Sicherungs-Lastschaltleiste Größe 1 250A, Größe 2 400A, Größe 3 630A
 für NH-Sicherungs-Einsätze nach IEC/EN 60269-2-1, section 1 und VDE 0636 Teil 201
 NH-vertical fuse switch disconnecter size 1 250A, size 2 400A, size 3 630A
 for NH-fuse links in accordance with IEC/EN 60269-2-1, section 1 and VDE 0636 part 201
 Interrupteur-sectionneur-vertical B.T, calibre 1 250 A, calibre 2 400 A, calibre 3 630 A
 pour fusibles selon IEC/EN 60269-2-1 section 1 et VDE 0636 partie 201

IEC/EN 60947

| MULTIVERT | 250 A | 400 A | 630 A |
|--|---|---------------------------|---------------------------|
| Interrupteur-sectionneur-vertical B.T. à fusibles..... | | | |
| calibre | 1..... | 2..... | 3..... |
| nombres de pôles / phases | 3..... | 3..... | 3..... |
| courant thermique conventionnel à l'air libre Ith..... | 250 A..... | 400 A..... | 630 A..... |
| avec cartouches fusibles B.T. | | | |
| perte de puissance assignée max. admissible Pn de cartouches fusibles B.T. | 23 W..... | 34 W..... | 43 W..... |
| courant thermique conventionnel à l'air libre Ith..... | | | |
| avec couteaux de sectionnement ¹⁾ | 400 A..... | 630 A..... | 800 A..... |
| perte de puissance assignée max. admissible Pn..... | | | |
| de couteaux de sectionnement..... | 2,6 W..... | 9 W..... | 17,5 W..... |
| ...catégorie | tension assignée | courants assignés | |
| ...d'emploi..... | d'emploi Ue..... | d'emploi Ie..... | |
| ...AC 23B..... | 400 V AC..... | Ie = 250 A..... | 400 A..... 630 A..... |
| ...AC 22B..... | 500 V AC..... | Ie = 250 A..... | 400 A..... 630 A..... |
| ...AC 21B..... | 690 V AC..... | Ie = 250 A..... | 400 A..... 630 A..... |
| tension assignée d'emploi Ue | 690 V AC..... | 690 C AC..... | 690 V AC..... |
| tension assignée d'isolement Ui..... | 1000 V..... | 1000 V..... | 1000 V..... |
| tension assignée de tenue aux chocs Uimp | 8 kV..... | 8 kV..... | 8 kV..... |
| fréquence assignée..... | 50 - 60 Hz..... | 50 - 60 Hz..... | 50 - 60 Hz..... |
| degré de protection /avec plaque de protection)..... | IP 30..... | IP 30..... | IP 30..... |
| degré de pollution..... | 3..... | 3..... | 3..... |
| service assigné | Dauerbetrieb / uninterrupted duty / service ininter-rompu | | |
| pouvoir assigné de fermeture en court-circuit Icm..... | | | |
| avec couteaux de sectionnement ¹⁾ (valeur de crête maximale)..... | 16 kA..... | 16 kA..... | 16 kA..... |
| courant assigné de courte-circuit conditionnel | | | |
| avec des cartouches fusibles B.T. | | | |
| 400 V AC..... | 120 kA / 250 A..... | 120 kA / 400 A..... | 80 kA / 630 A..... |
| 500 V AC..... | 120 kA / 250 A..... | 120 kA / 400 A..... | 80 kA / 630 A..... |
| 690 V AC..... | 120 kA / 250 A..... | 120 kA / 315 A..... | 80 kA / 500 A..... |
| 690 V AC..... | | 100 kA / 400 A..... | |
| courant assigné de courte durée admissible Icw..... | | | |
| avec couteaux de sectionnement ¹⁾ | 8 kA/1 s..... | 8 kA/1 s..... | 8 kA/1 s..... |
| puissance dissipée assignée à Ith sans cartouches fusibles | 24 W..... | 46 W..... | 92 W..... |
| puissance dissipée assignée à Ith sans couteaux de sectionnement..... | 65 W..... | 126 W..... | 161 W..... |
| raccordement de câble | | | |
| boulon / écrou sert | M10..... | M12..... | M12..... |
| pour jeu de barres de largeur maximum | 40 mm..... | 46 mm..... | 46 mm..... |
| pour cosse de câble:..... | 300 mm ² | 300 mm ² | 300 mm ² |
| V-terminal patte pour V-borne ²⁾ | | | |
| raccordement de Jeu de barres | | | |
| raccordement à vis standard | M12 / 32-38 Nm..... | M12 / 32-38 Nm..... | M12 / 32-38 Nm..... |
| borne à crampon ³⁾ pour jeu de barres de épaisseur..... | 5 - 10 mm..... | 5 - 10 mm..... | 5 - 10 mm..... |

Achtung!
 Inbetriebnahme und Wartung nur durch Fachpersonal und/oder unterwiesene Personen!
 Beachten Sie die Betriebs- und Montageanleitung!

Warning!
 Only qualified or authorized personnel may commission and maintain these devices!
 Follow the operating instructions!

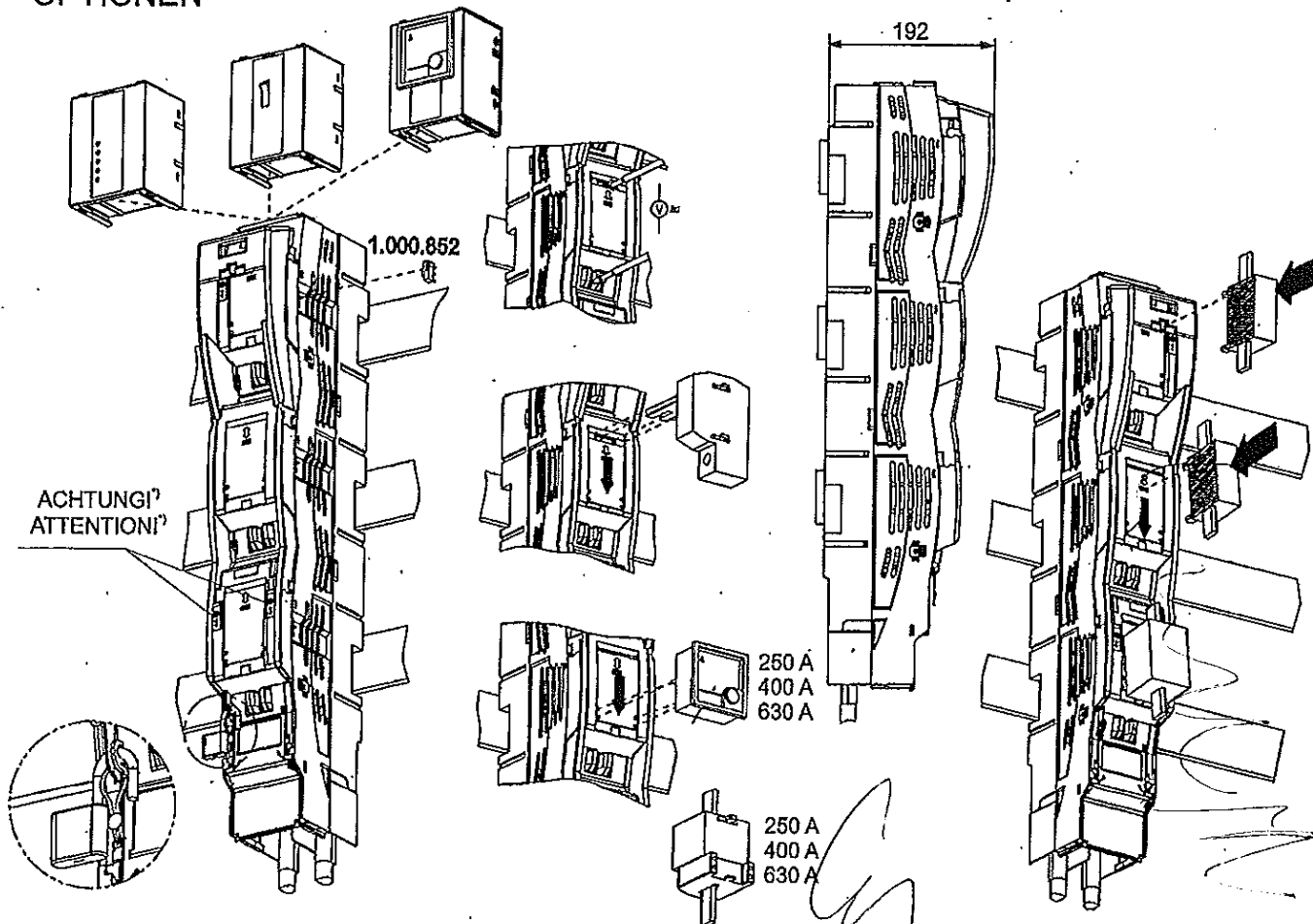
Attention!
 Mise en service et maintenance uniquement par des personnes qualifiées ou instruites.
 Respectez les Instructions de montage!



MULTIVERT® 250 A, 400 A, 630 A

NH-Sicherungs-Lastschaltleiste Größe 1 250A, Größe 2 400A, Größe 3 630A
 für NH-Sicherungs-Einsätze nach IEC/EN 60269-2-1, section 1 und VDE 0636 Teil 201
 NH-vertical fuse switch disconnecter size 1 250A, size 2 400A, size 3 630A
 for NH-fuse links in accordance with IEC/EN 60269-2-1, section 1 and VDE 0636 part 201
 Interrupteur-sectionneur-vertical B.T. calibre 1 250 A, calibre 2 400 A, calibre 3 630 A
 pour fusibles selon IEC/EN 60269-2-1 section 1 et VDE 0636 partie 201

OPTIONEN



*) Diese Beschriftung (PRESS) auf dem Deckel hat für die MULTIVERT in 3-poliger Ausführung keine Bedeutung.
 Indicated information on the cover (PRESS) is of no importance for MULTIVERT units for triple pole switching.

| Bezeichnung reference | B | E | V |
|--|--|--|--|
| Anschlussart type of terminal | Bolzenanschluss bolt | Einpressmutter insert nut | V-Anschluss terminal |
| Zubehör accessory | Kabelschuh max. 45 mm breit cable lug max width 45 mm | Kabelschuh max. 45 mm breit cable lug max width 45 mm | |
| Klemmbereich cross section [mm²] | max. 300 | max. 300 | 35 re,m / round solid, round stranded 50 - 185 sm / sectoral solid 50 - 240 se / sectoral stranded |
| M(an) [Nm] | 35 ±3 | 35 ±3 | |
| | Gr. / size 1: M10x25 Gr. / size 2/3: M12x35 | Gr. / size 1: M10x20 Gr. / size 2/3: M12x30 | |

ПАПКА 9

ПРИЛОЖЕНИЕ 10 Други документи за
Позиция 1 и Позиция 2

ПРИЛОЖЕНИЕ 10.4 Предпазители NH NH-2
и NH-3

Приложение 1

Приложение 2

Приложение 3

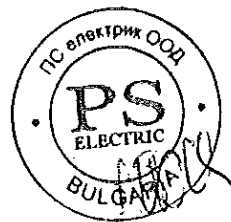
Приложение 4

Приложение 5

Приложение 6

Приложение 7

Приложение 8

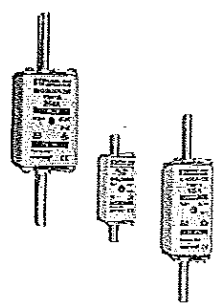
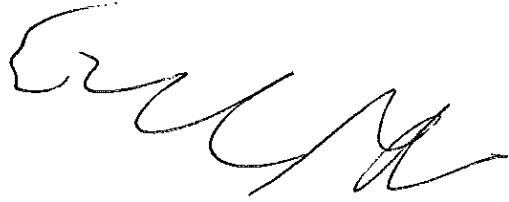


NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

LOW VOLTAGE IEC FUSES

IEC NH FUSE-LINKS



FEATURES & BENEFITS

- Dimensions according to DIN 43 620 Parts 1 to 4
- Non-isolated gripping lugs
- Double indicator
- Lead free contact blades
- 0% cadmium

APPLICATIONS

- gG: general purpose cable and line protection

STANDARDS

- VDE 0636 Part 201
- IEC 60269-1 and -2

The NH system is classified among plug-in fuse systems and is composed of:

- fuse-base (possibly including terminal covers and phase barriers)
- fuse-link with blade contact
- fuse-link replacement device (LV HRC fuse puller)

Since the design of this system cannot guarantee non-interchangeability of rated current it must be handled by a qualified professional.

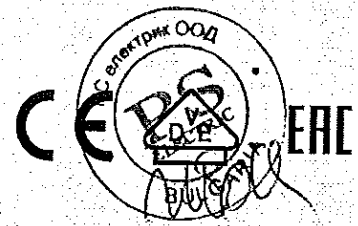
Type "gG" NH fuse-links are full range breaking capacity fuse-links and are used to protect cables and equipment. They can interrupt any current surge, from the lowest fusing current up to their breaking capacity, and so can be used alone as protection. They also protect electrical devices and industrial set-ups from the electrodynamic effects of very high short-circuit currents.

Rated Power Dissipation values of Mersen NH fuse-links 400VAC are below the maximum values required by standard IEC 60269.

TECHNICAL DATA OVERVIEW

| | |
|----------------------|-----------------------|
| Voltage AC | 400 VAC |
| Ampere Range (A) | 2 ... 630 A |
| Size per Standard | Sizes 000 to 3 |
| Speed/Characteristic | gG |
| I.R. AC (IEC) | 100 kA |
| Body Material | ceramic |
| Contact Materials | copper, silver-plated |

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRODUCT RANGE



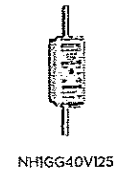
Size 000 gG 400VAC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current | Power dissipation at I _n | Width | Package | Weight |
|----------------|-------------|------------------------|---------------|-------------------------------------|---------|---------|---------|
| NH000GG40V2 | Z223674 | 400 V | 2 A | 0,7 W | 20,8 mm | 3 | 0,13 kg |
| NH000GG40V4 | A223675 | 400 V | 4 A | 0,9 W | 20,8 mm | 3 | 0,13 kg |
| NH000GG40V6 | B223676 | 400 V | 6 A | 1,2 W | 20,8 mm | 3 | 0,13 kg |
| NH000GG40V10 | C223677 | 400 V | 10 A | 1,3 W | 20,8 mm | 3 | 0,13 kg |
| NH000GG40V16 | D223678 | 400 V | 16 A | 1,6 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V20 | E223679 | 400 V | 20 A | 1,9 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V25 | F223680 | 400 V | 25 A | 2,2 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V32 | G223681 | 400 V | 32 A | 2,7 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V35 | H223682 | 400 V | 35 A | 3,1 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V40 | J223683 | 400 V | 40 A | 3,5 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V50 | K223684 | 400 V | 50 A | 3,9 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V63 | L223685 | 400 V | 63 A | 5,2 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V80 | M223686 | 400 V | 80 A | 5,3 W | 20,8 mm | 9 | 0,13 kg |
| NH000GG40V100 | N223687 | 400 V | 100 A | 5,7 W | 20,8 mm | 9 | 0,13 kg |



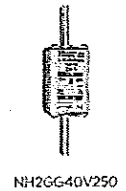
Size 00 gG 400VAC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current | Power dissipation at I _n | Width | Package | Weight |
|----------------|-------------|------------------------|---------------|-------------------------------------|---------|---------|--------|
| NH00GG40V125 | E223702 | 400 V | 125 A | 7,4 W | 29,5 mm | 3 | 0,2 kg |
| NH00GG40V160 | F223703 | 400 V | 160 A | 8,3 W | 29,5 mm | 3 | 0,2 kg |



Size 1 gG 400VAC

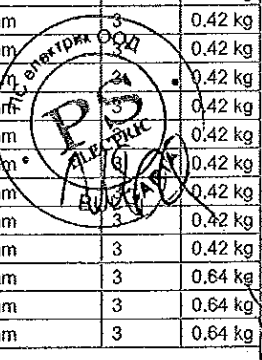
| Catalog number | Item number | Rated voltage AC (IEC) | Rated current | Power dissipation at I _n | Width | Package | Weight |
|----------------|-------------|------------------------|---------------|-------------------------------------|---------|---------|---------|
| NH1GG40V35 | J223706 | 400 V | 35 A | 4 W | 29,5 mm | 3 | 0,28 kg |
| NH1GG40V50 | K223707 | 400 V | 50 A | 5,2 W | 29,5 mm | 3 | 0,28 kg |
| NH1GG40V63 | L223708 | 400 V | 63 A | 6,8 W | 29,5 mm | 3 | 0,28 kg |
| NH1GG40V80 | M223709 | 400 V | 80 A | 6,2 W | 29,5 mm | 3 | 0,28 kg |
| NH1GG40V100 | N223710 | 400 V | 100 A | 8,6 W | 29,5 mm | 3 | 0,28 kg |
| NH1GG40V125 | P223711 | 400 V | 125 A | 9,8 W | 29,5 mm | 3 | 0,28 kg |
| NH1GG40V160 | Q223712 | 400 V | 160 A | 12,4 W | 39,5 mm | 3 | 0,41 kg |
| NH1GG40V200 | R223713 | 400 V | 200 A | 14,4 W | 39,5 mm | 3 | 0,41 kg |
| NH1GG40V224 | S223714 | 400 V | 224 A | 15,6 W | 39,5 mm | 3 | 0,41 kg |
| NH1GG40V250 | T223715 | 400 V | 250 A | 17,6 W | 39,5 mm | 3 | 0,41 kg |



Size 2 gG 400VAC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current | Power dissipation at I _n | Width | Package | Weight |
|----------------|-------------|------------------------|---------------|-------------------------------------|---------|---------|---------|
| NH2GG40V35 | T227257 | 400 V | 35 A | 4,1 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V50 | V227258 | 400 V | 50 A | 5,4 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V63 | W227259 | 400 V | 63 A | 6,8 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V80 | F223726 | 400 V | 80 A | 6,4 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V100 | G223727 | 400 V | 100 A | 8,1 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V125 | H223728 | 400 V | 125 A | 10,2 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V160 | J223729 | 400 V | 160 A | 10,8 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V200 | K223730 | 400 V | 200 A | 15,2 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V224 | L223731 | 400 V | 224 A | 14,7 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V250 | M223732 | 400 V | 250 A | 17,1 W | 29,5 mm | 3 | 0,42 kg |
| NH2GG40V315 | N223733 | 400 V | 315 A | 20,1 W | 39,5 mm | 3 | 0,64 kg |
| NH2GG40V355 | P223734 | 400 V | 355 A | 22,6 W | 39,5 mm | 3 | 0,64 kg |
| NH2GG40V400 | Q223735 | 400 V | 400 A | 25,4 W | 39,5 mm | 3 | 0,64 kg |

ВРНО С
ОРИГИНАЛ



NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRODUCT RANGE

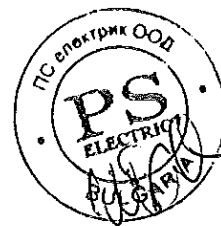
Size 3 gG 400VAC

| Model number | Item number | Rated voltage AC (IEC) | Rated current (IEC) | Power dissipation at I _n | Width | Number of poles | Weight |
|--------------|-------------|------------------------|---------------------|-------------------------------------|---------|-----------------|---------|
| NH3GG40V250 | R223736 | 400 V | 250 A | 15.4 W | 39.5 mm | 1 | 0.65 kg |
| NH3GG40V315 | S223737 | 400 V | 315 A | 19.8 W | 39.5 mm | 1 | 0.65 kg |
| NH3GG40V400 | T223738 | 400 V | 400 A | 25.1 W | 39.5 mm | 1 | 1.05 kg |
| NH3GG40V500 | V223739 | 400 V | 500 A | 31.1 W | 51 mm | 1 | 1.05 kg |
| NH3GG40V630 | W223740 | 400 V | 630 A | 39 W | 51 mm | 1 | 1.05 kg |

TECHNICAL DATA

| | Size 000 gG 400VAC | Size 00 gG 400VAC | Size 1 gG 400VAC | Size 2 gG 400VAC | Size 3 gG 400VAC |
|----------------------------|--------------------|-------------------|------------------|------------------|------------------|
| Rated current | 2 ... 100 A | 125 ... 160 A | 35 ... 250 A | 35 ... 400 A | 250 ... 630 A |
| Rated breaking capacity AC | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA |
| Rated voltage AC | 400 V | 400 V | 400 V | 400 V | 400 V |
| Indication System | double indicator | double indicator | double indicator | double indicator | double indicator |
| Width | 21 mm | 30 mm | 40 mm | 51 mm | 70 mm |

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

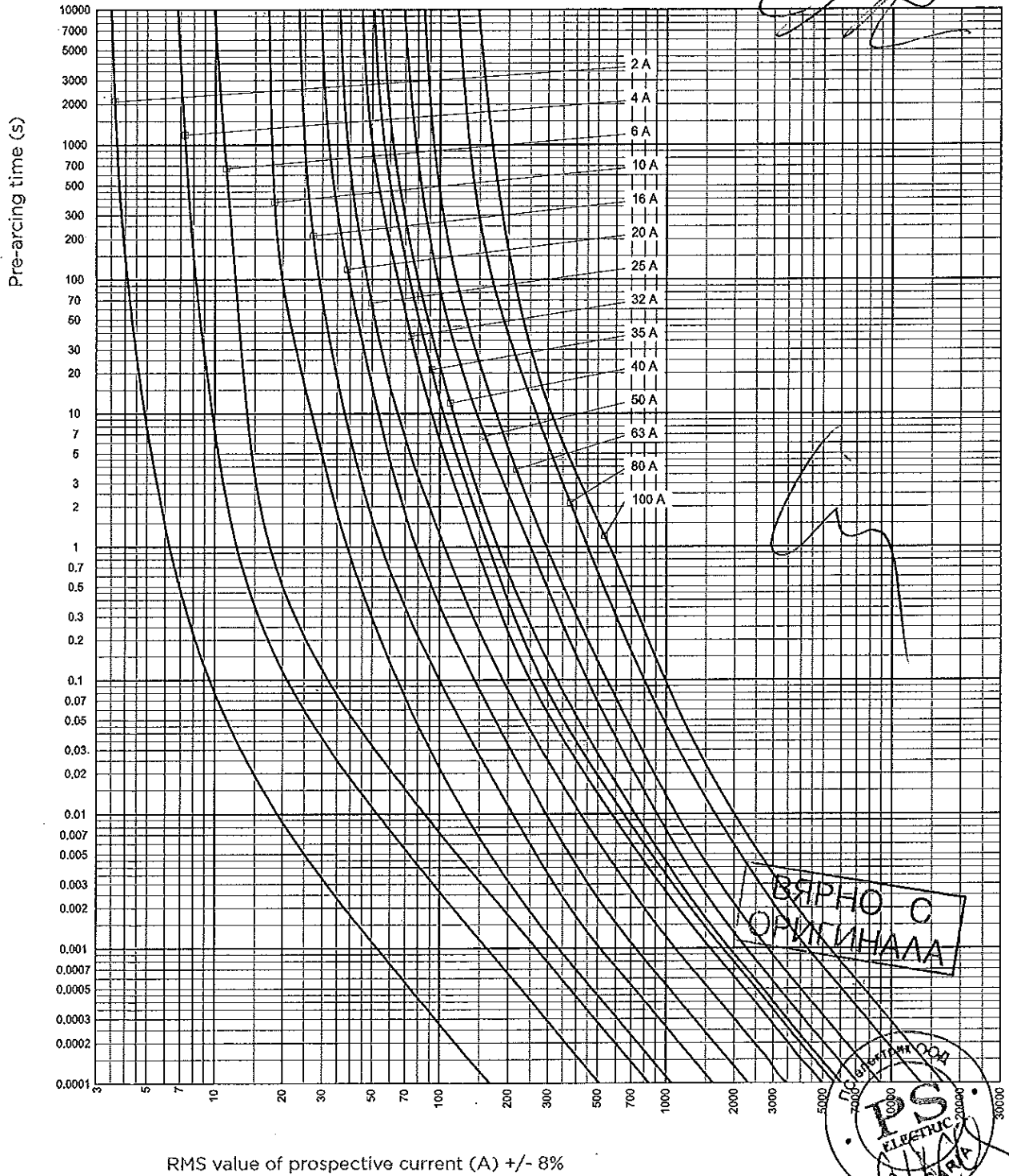
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

TIME CURRENT CHARACTERISTIC CURVES

Size 000

Handwritten signature



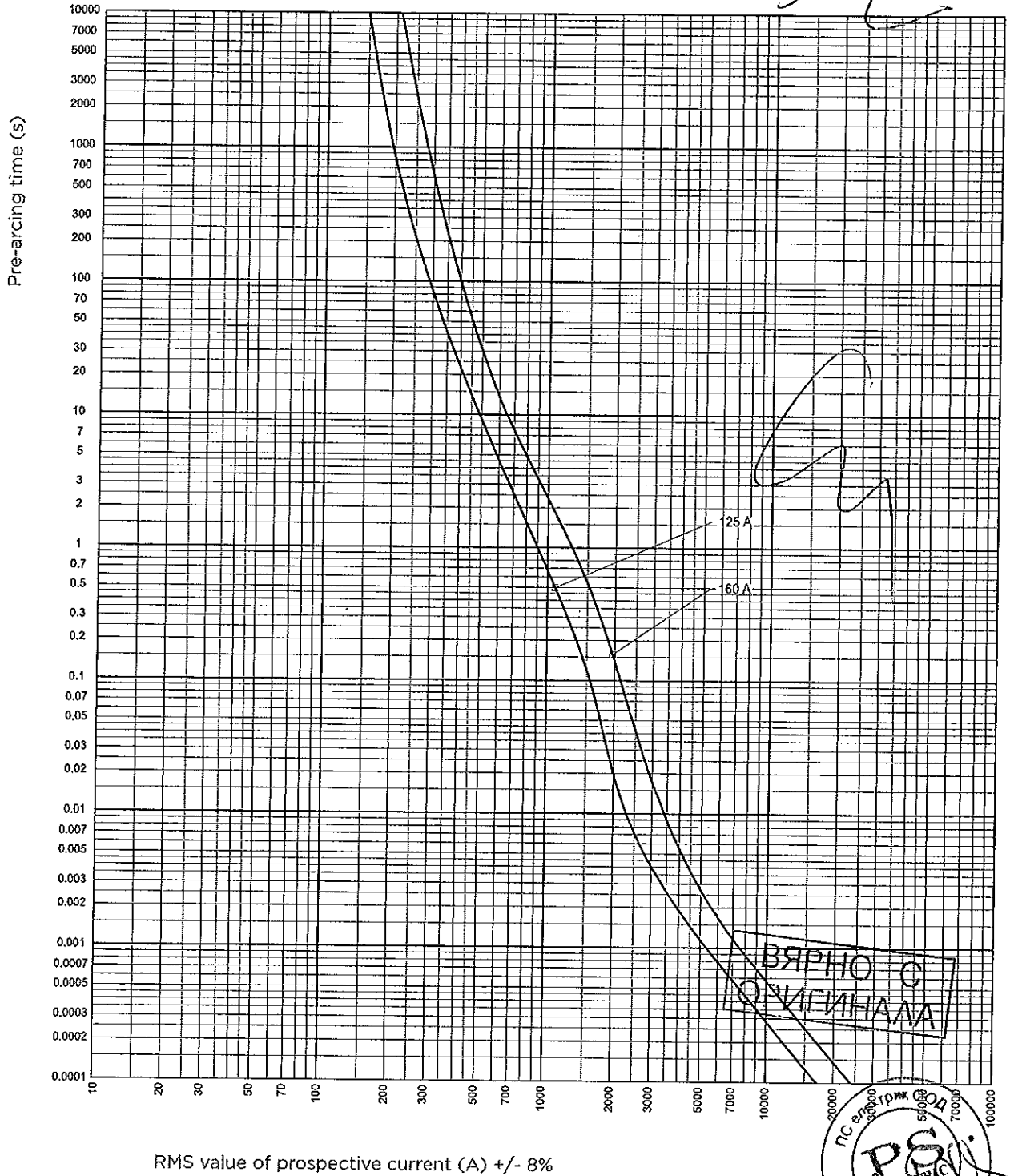
Mersen reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

TIME CURRENT CHARACTERISTIC CURVES

Size 00



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

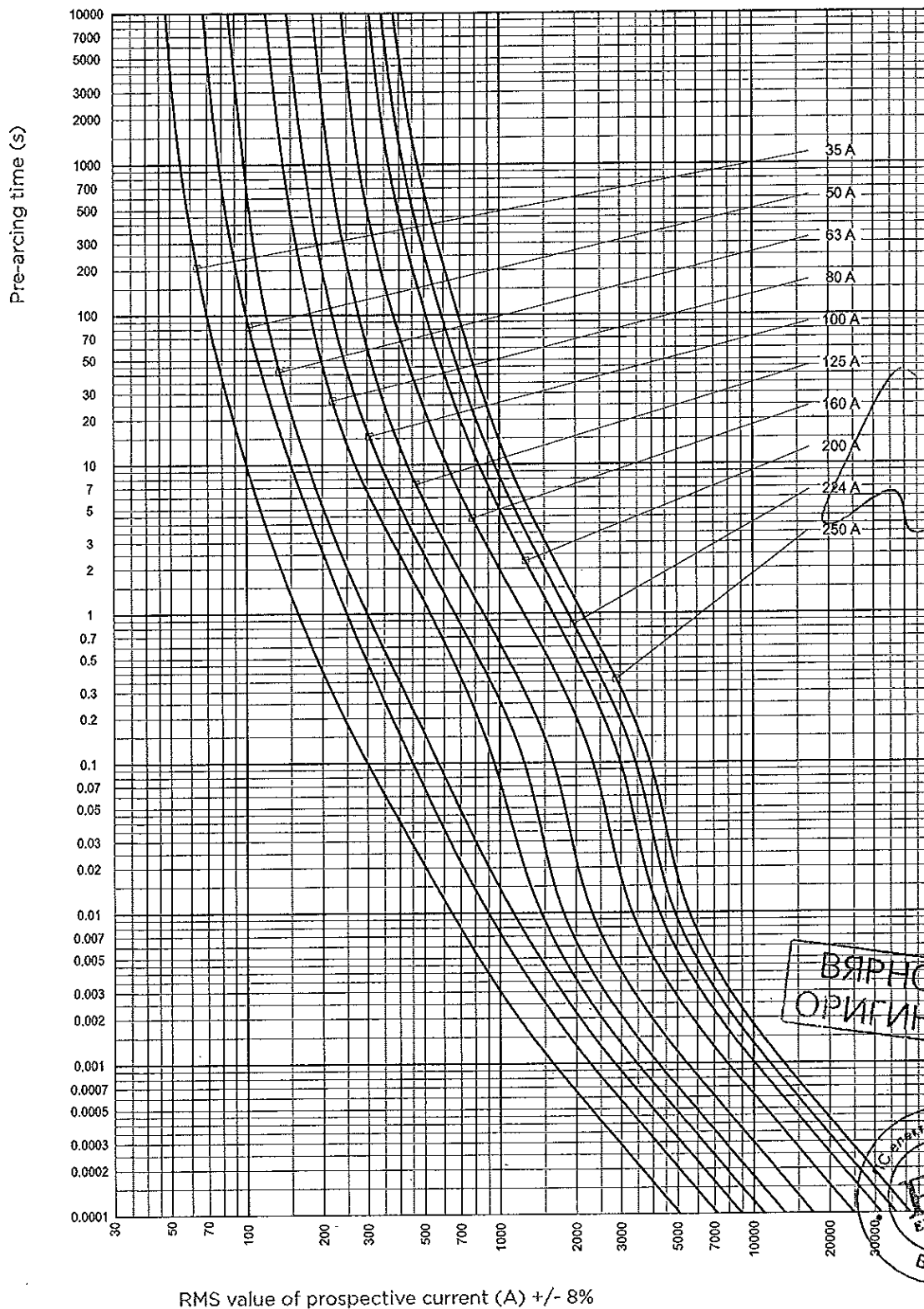
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

TIME CURRENT CHARACTERISTIC CURVES

Handwritten signature

Size 1



MERSEN reserves the right to change the appearance of connect. without notice, any information contained in this datasheet.

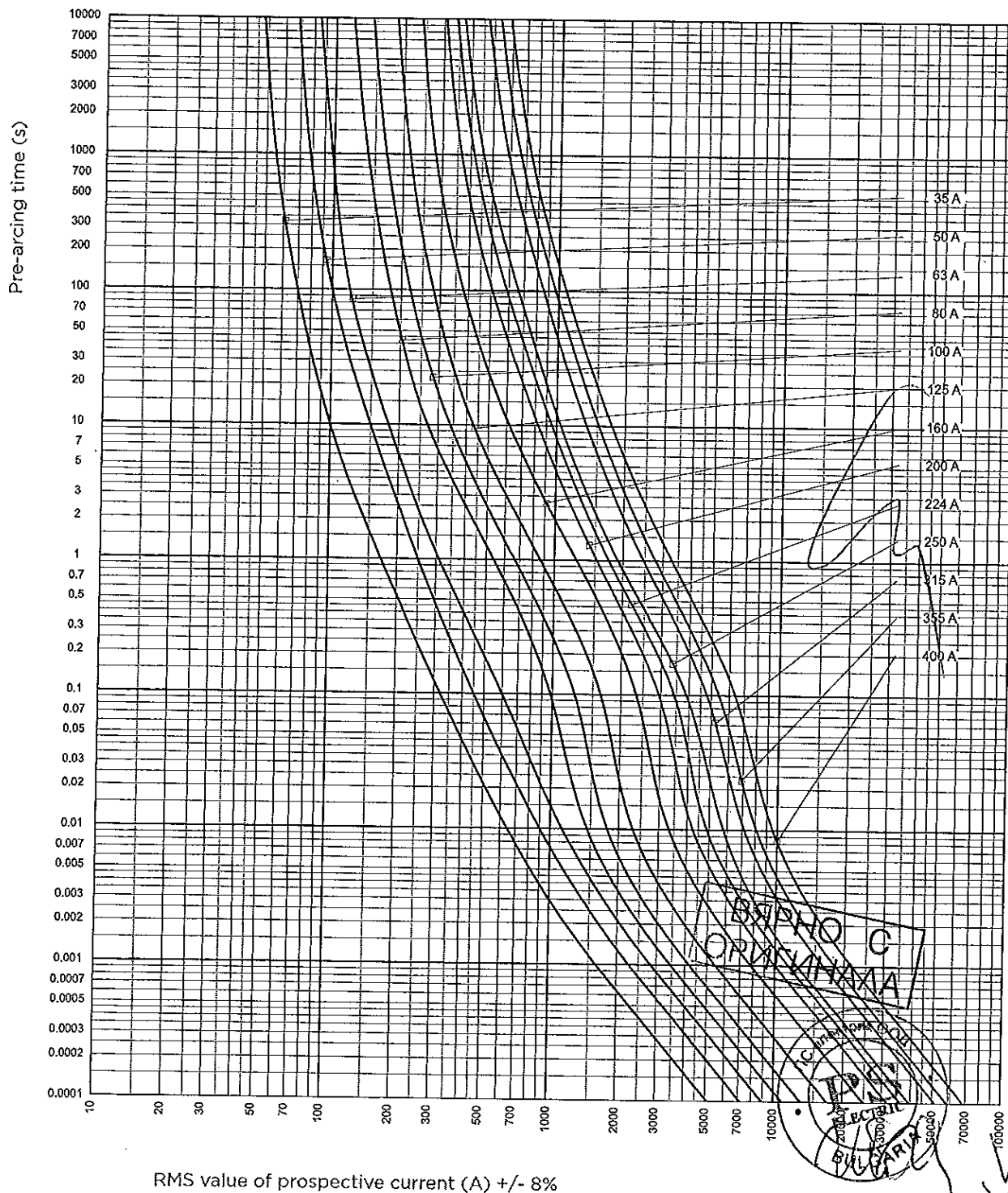
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

TIME CURRENT CHARACTERISTIC CURVES

Handwritten signature

Size 2



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

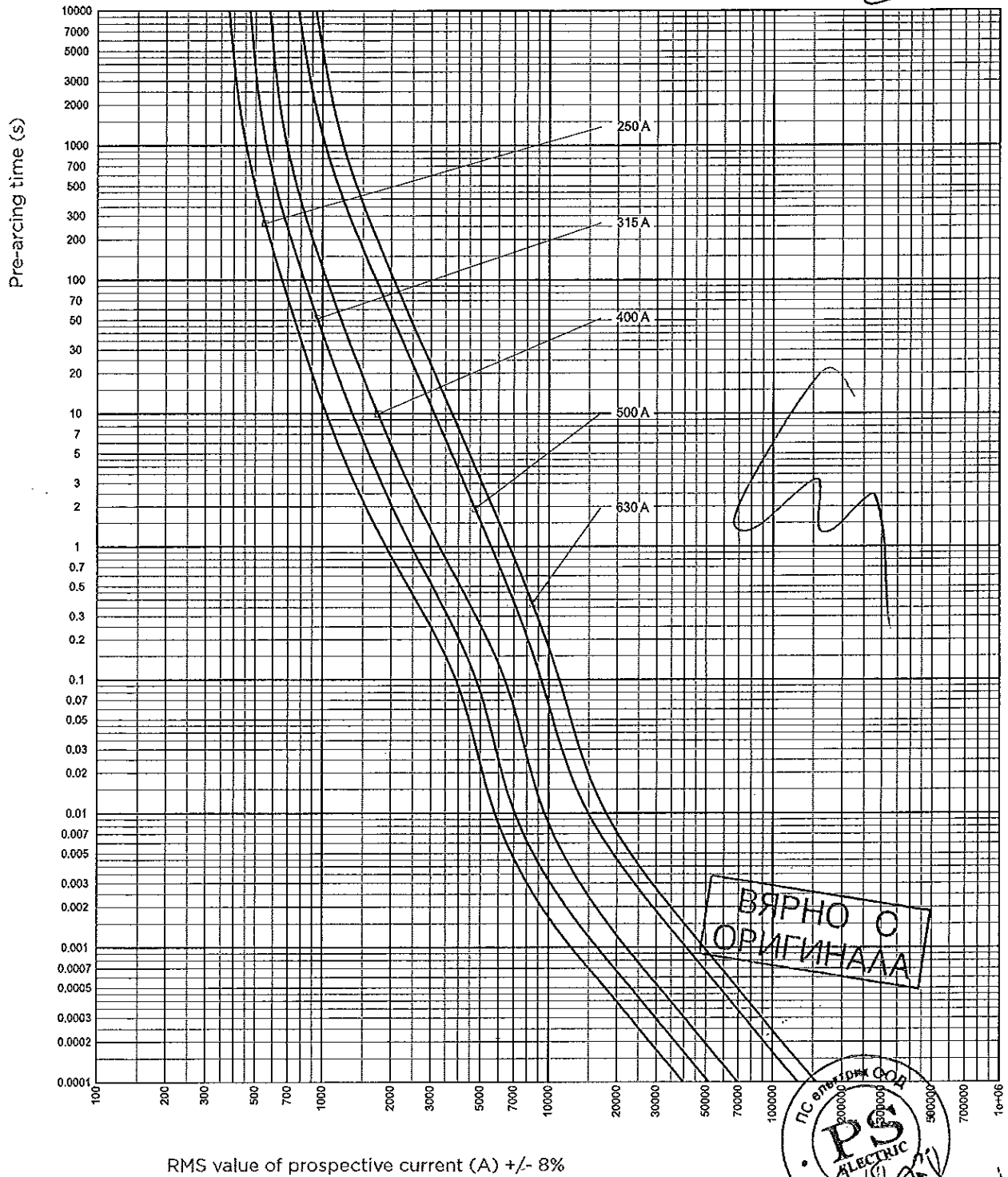
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

TIME CURRENT CHARACTERISTIC CURVES

Size 3

Handwritten signature



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

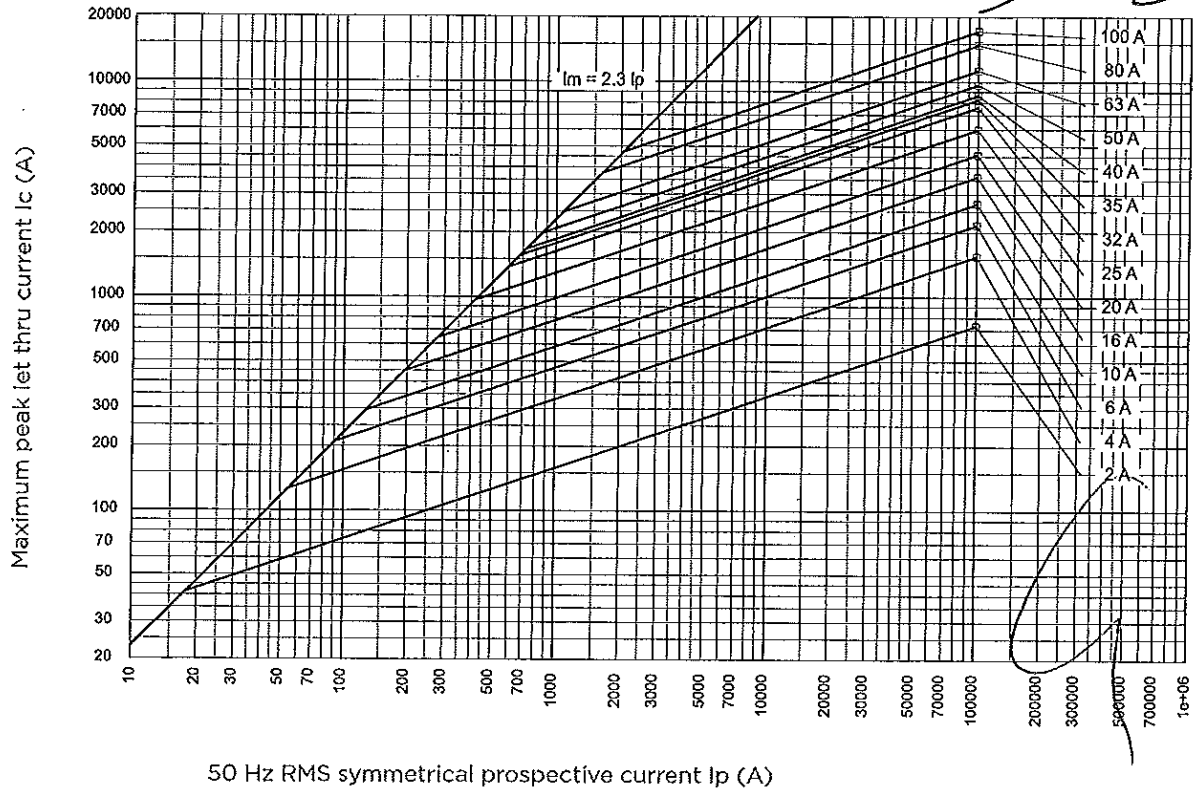
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

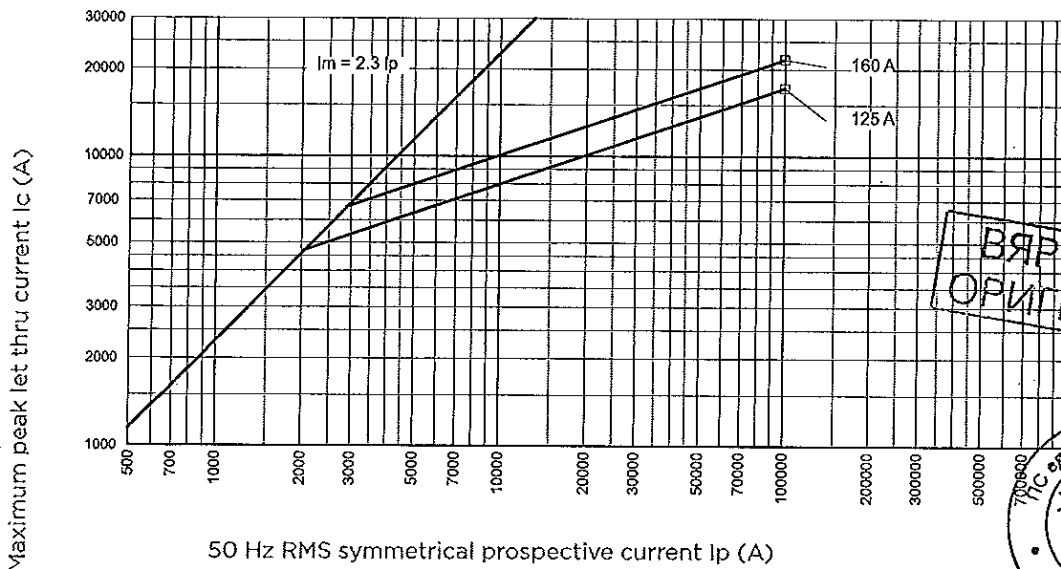
CUT-OFF CURRENT CHARACTERISTIC

Size 000

Handwritten signature



Size 00



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

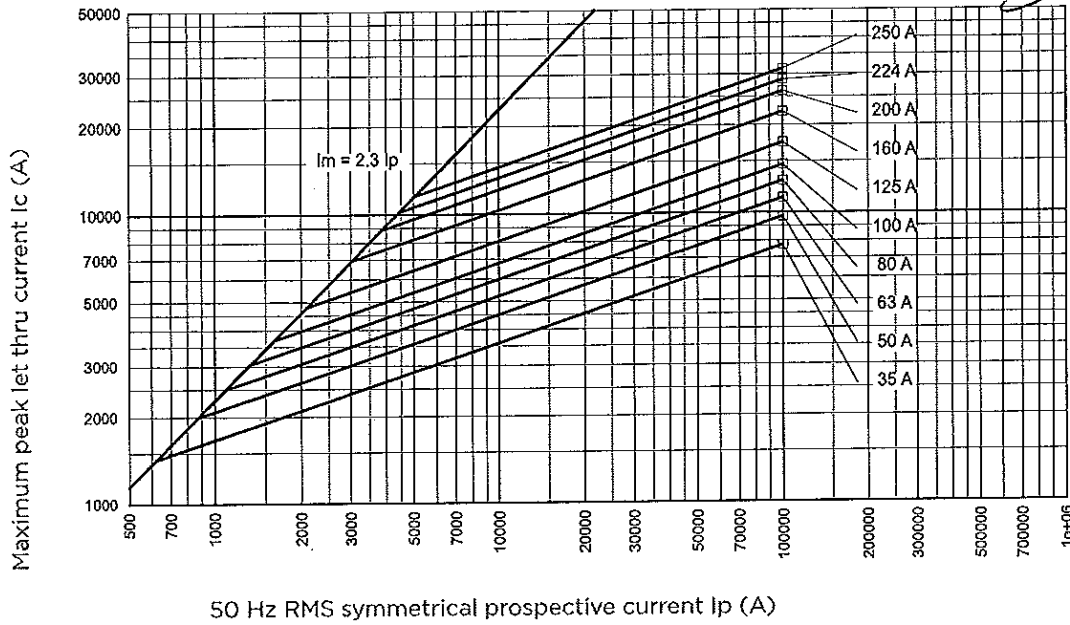
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

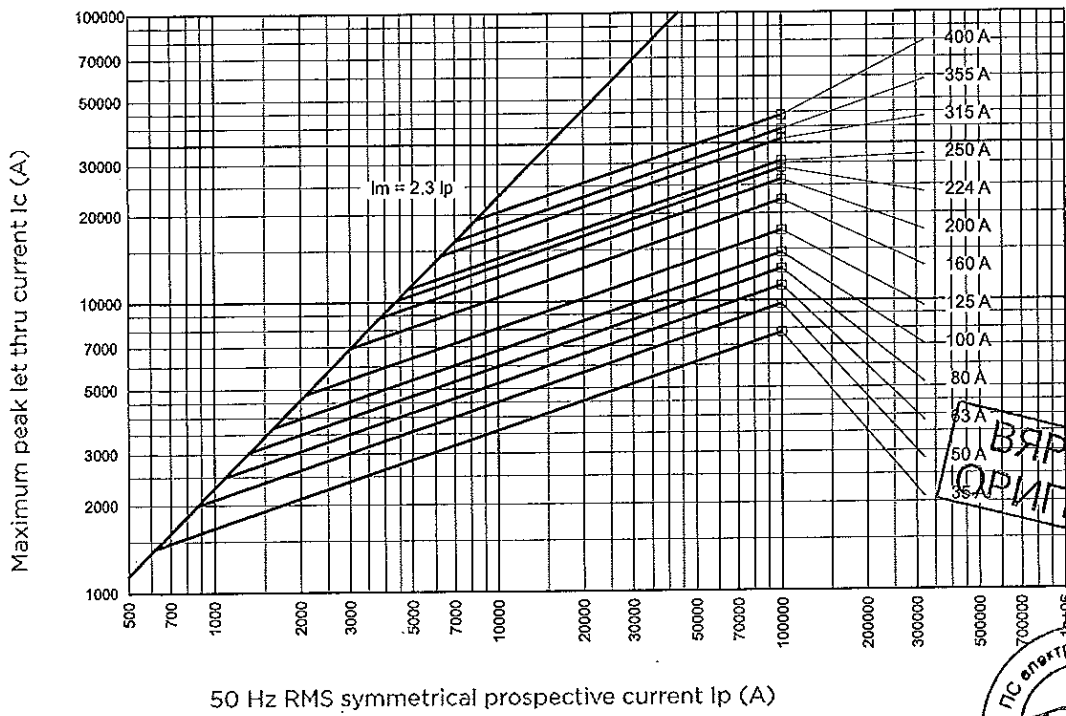
CUT-OFF CURRENT CHARACTERISTIC

Handwritten signature

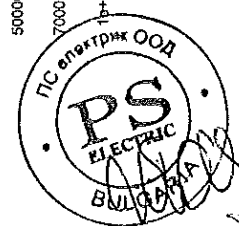
Size 1



Size 2



ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

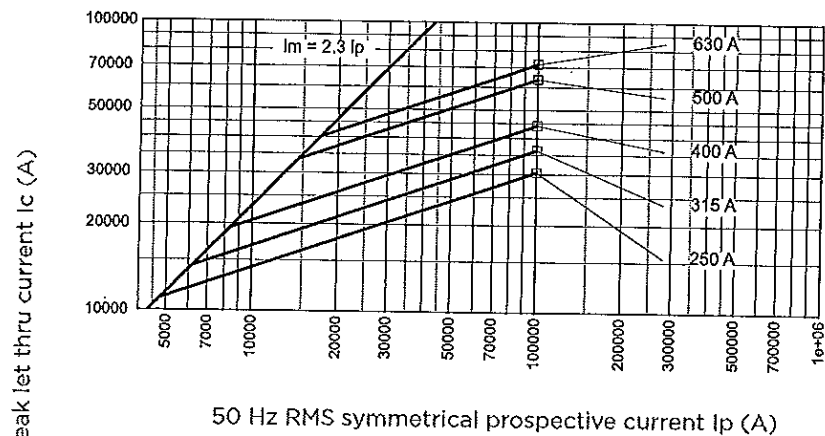
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

CUT-OFF CURRENT CHARACTERISTIC

Size 3

Handwritten signature



Handwritten signature

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

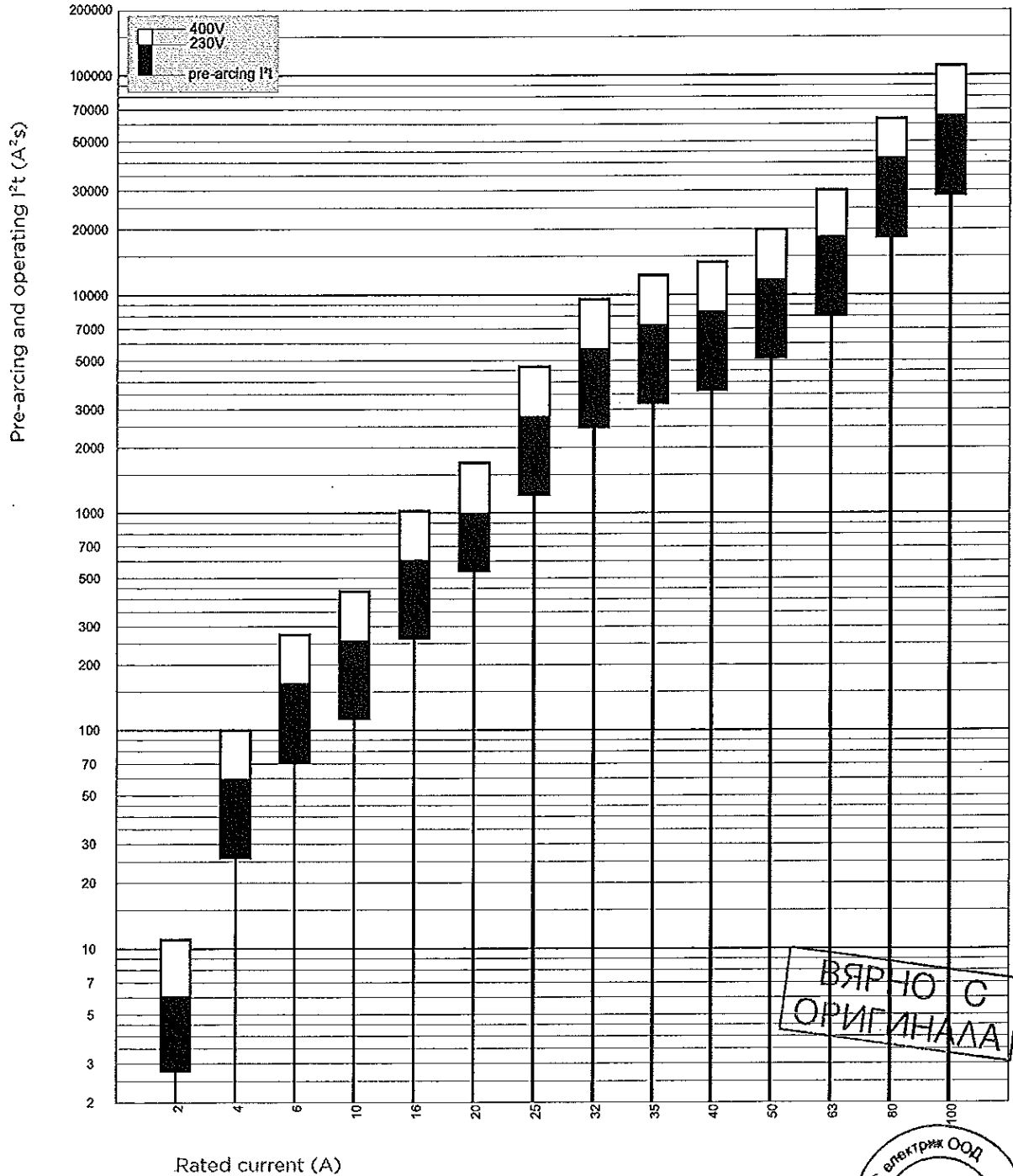
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRE-ARCING AND OPERATING I²t CHARACTERISTICS

Handwritten signature

Size 000



ВЪРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

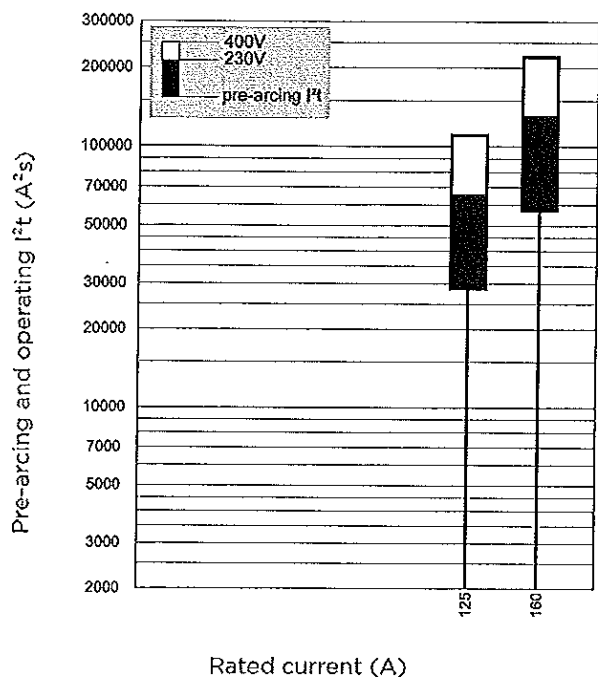
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRE-ARCING AND OPERATING I²t CHARACTERISTICS

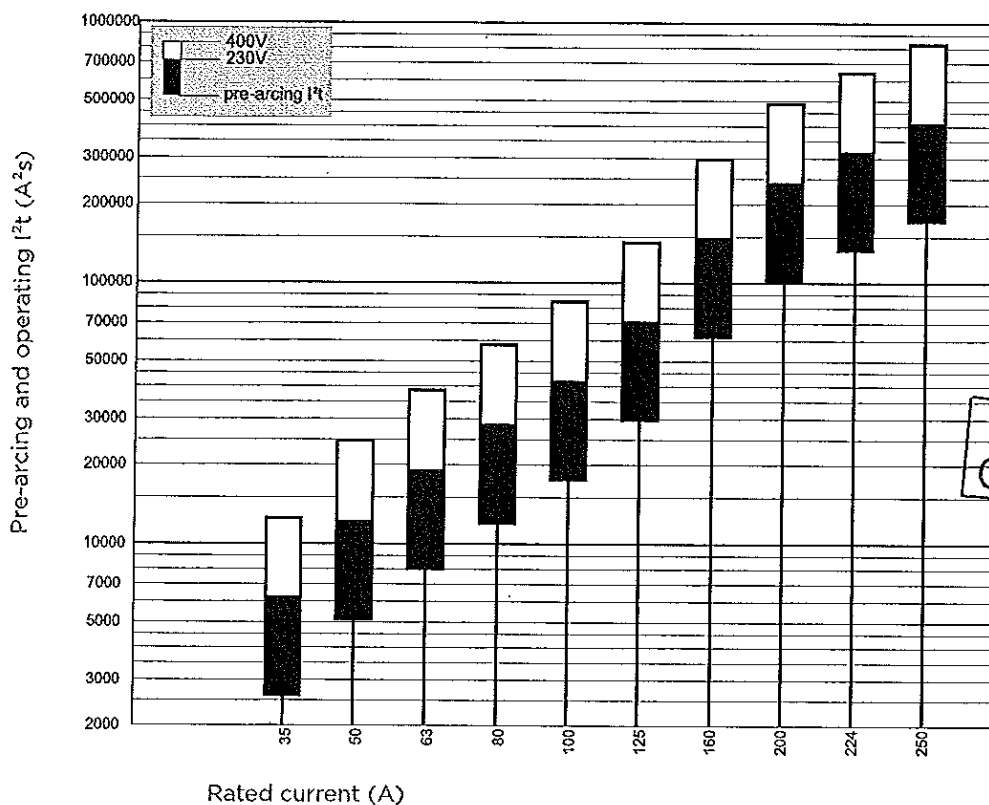
Handwritten signature

Size 00

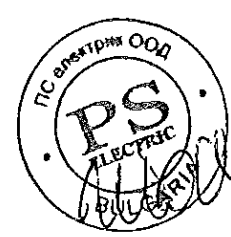


Handwritten mark

Size 1



ВЯРНО С
ОРИГИНАЛА



Mersen reserves the right to change, update or correct, without notice, any information contained in this datasheet.

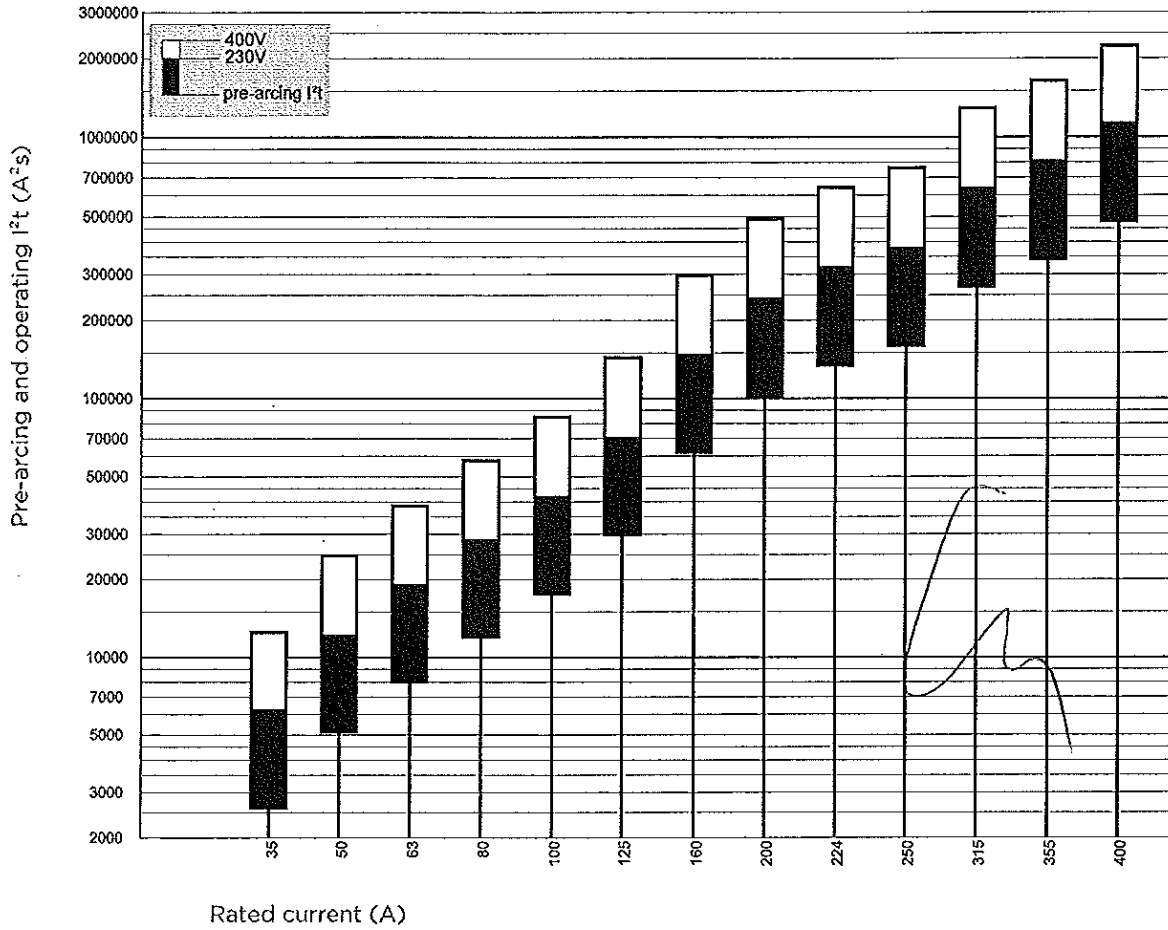
NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRE-ARCING AND OPERATING I²t CHARACTERISTICS

Handwritten signature

Size 2



ВЯРНО С
ОРИГИНАЛА



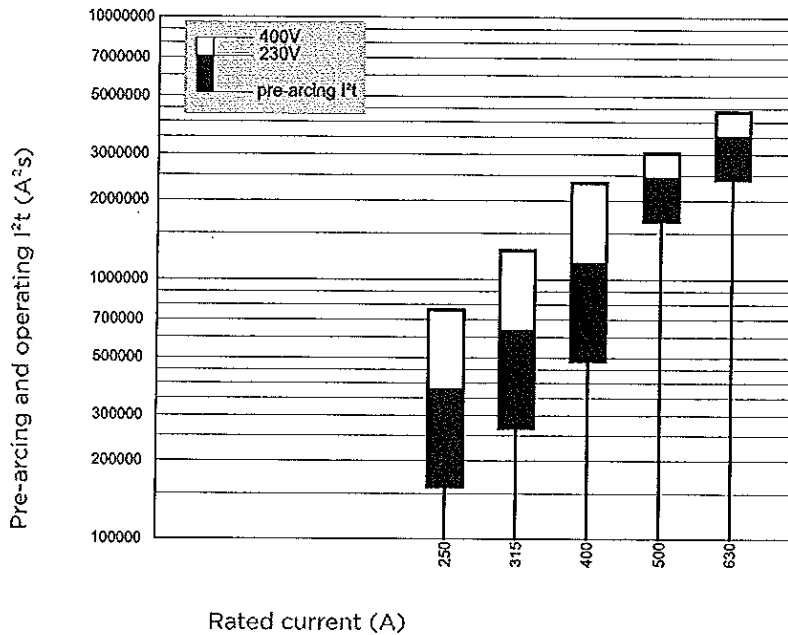
MERSEN reserves the right to change price or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRE-ARCING AND OPERATING I²t CHARACTERISTICS

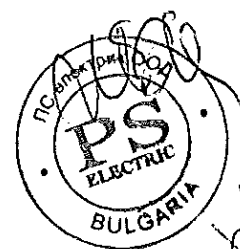
Size 3



Handwritten signature

Handwritten signature

ВЯРНО С
ОРИГИНАЛА



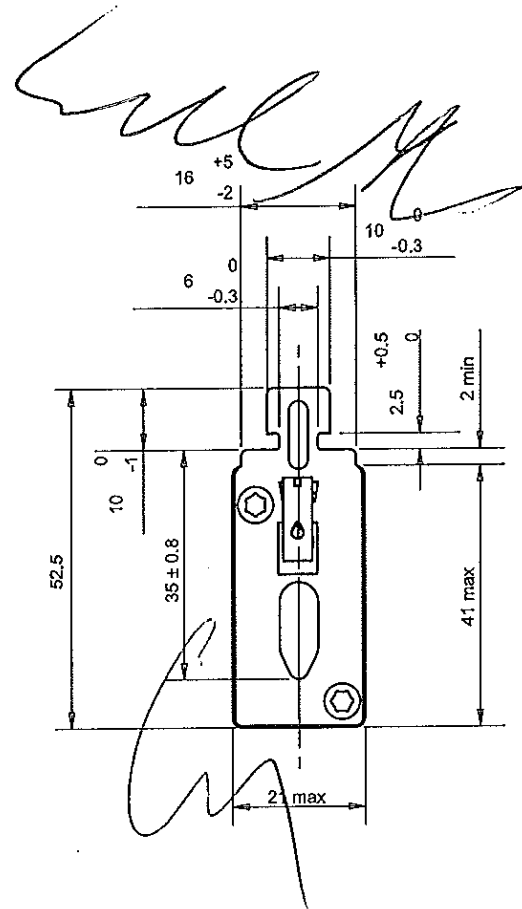
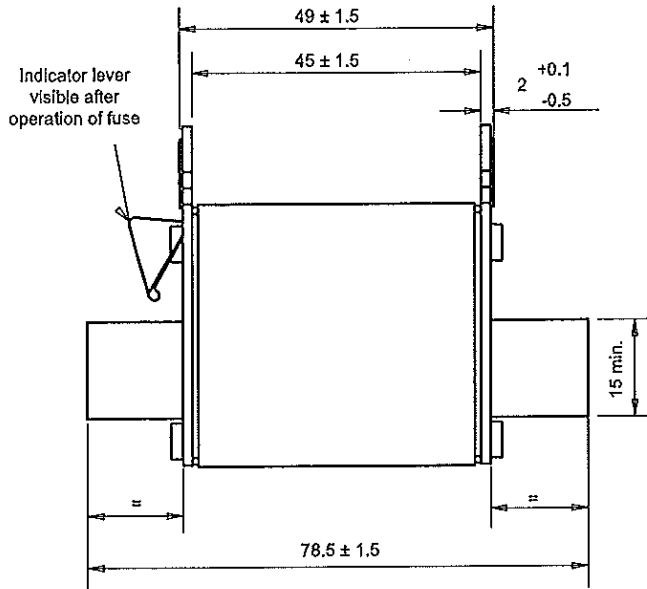
МЕРСОН ЗАДЪРЖА ПРАВИЛНОСТТА НА СЪДЪРЖАНИЕТО И НЕ ОТКАЗВА ДА ПОДЕЛИ СВОИТЕ ТЕХНИЧЕСКИ ДАННИ С ТРЕТИ ЛИЦА БЕЗ НЕГОВТО СОГЛАСИЕ.

NH fuse-links gG 400VAC

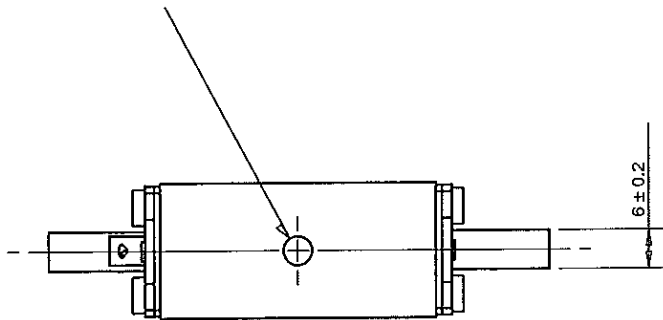
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

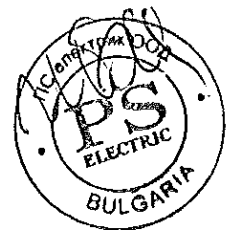
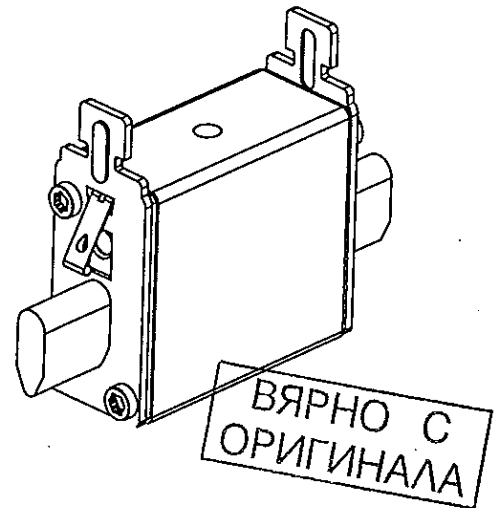
Size 000 with double indicator (0118997C)



Visibility of red indicator signals conduction of the fuse-link.
After operation the red indicator is no longer visible



Dimensions in mm



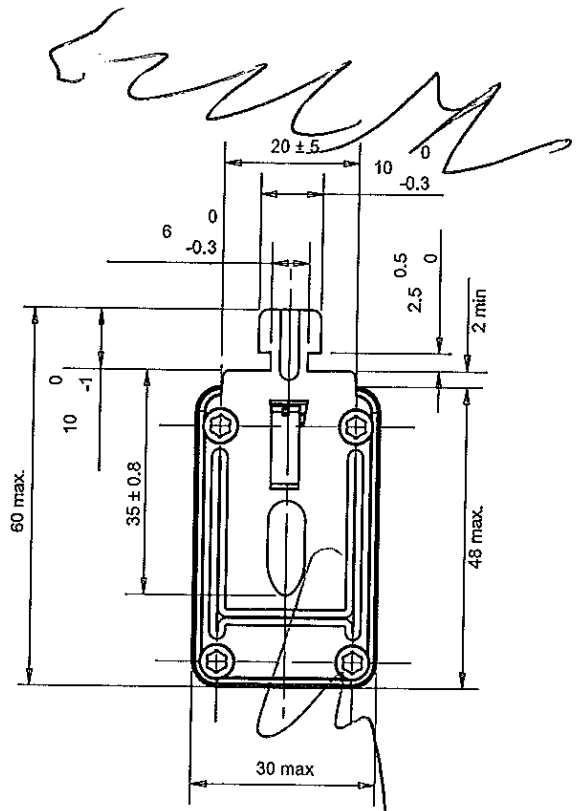
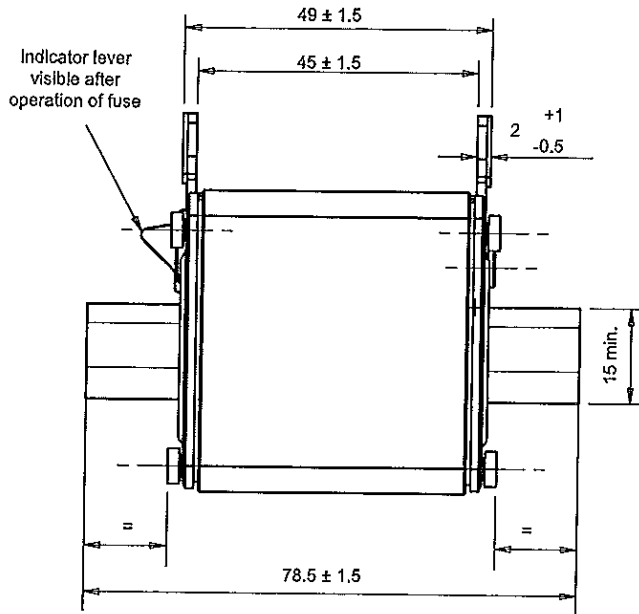
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

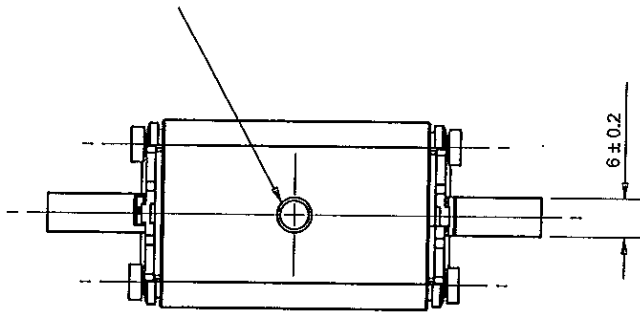
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

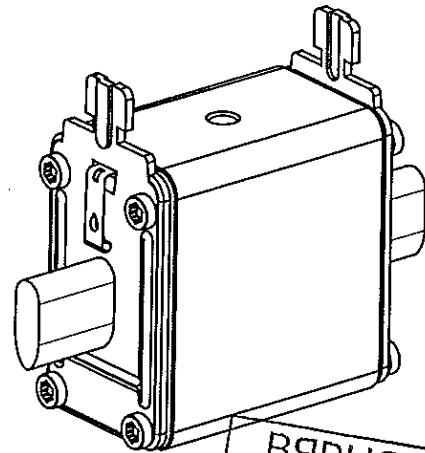
Size 00 with double indicator (118998 D)



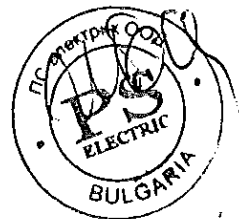
• Visibility of red indicator signals conduction of the fuse-link.
After operation the red indicator is no longer visible



Dimensions in mm



ВЯРНО С
ОРИГИНАЛА

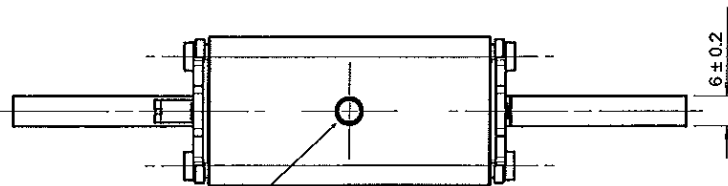
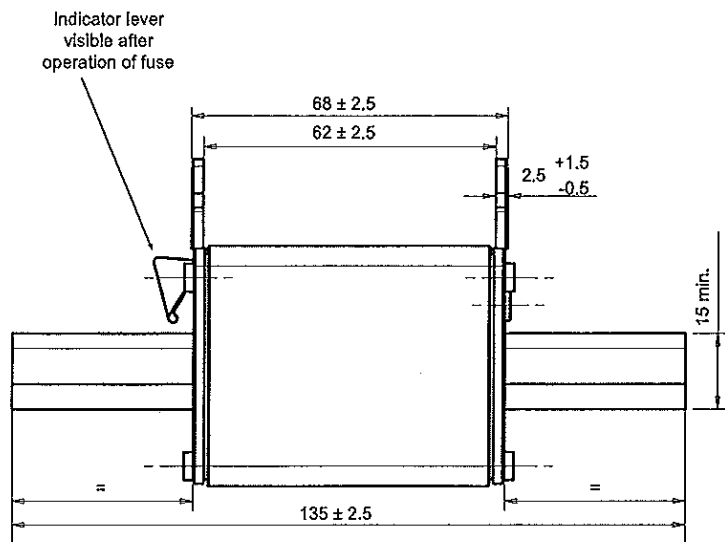


NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

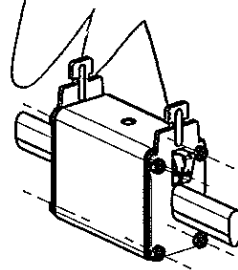
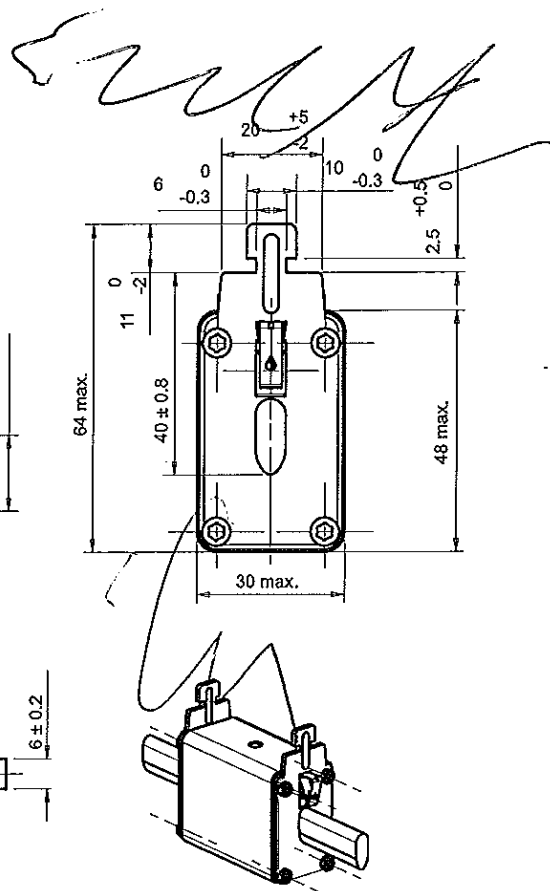
DIMENSIONS

Size 1 compact with double indicator (35-125A) (1000413B)



Visibility of red indicator signals conduction of the fuse-link.
After operation the red indicator is no longer visible

Dimensions in mm



ВЯРНО С
ОРИГИНАЛА



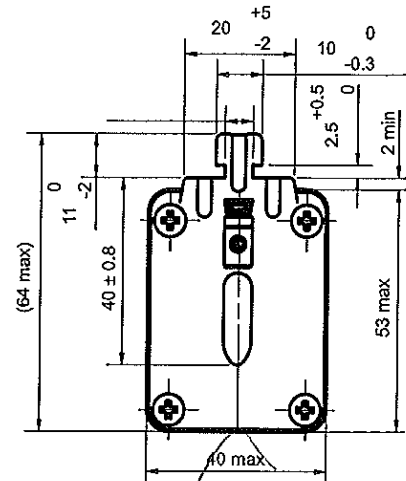
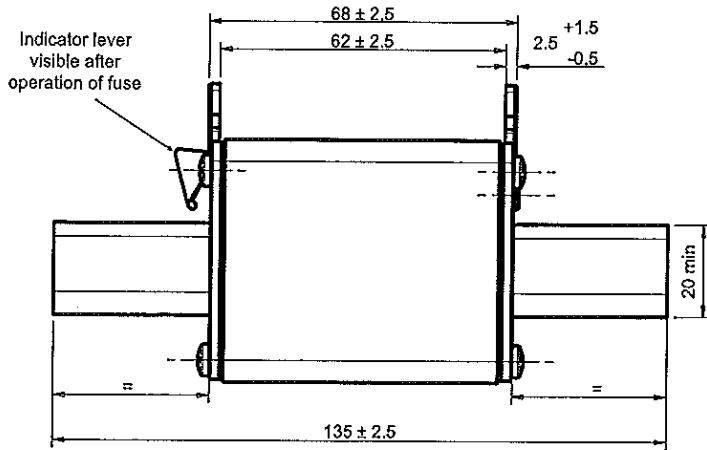
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

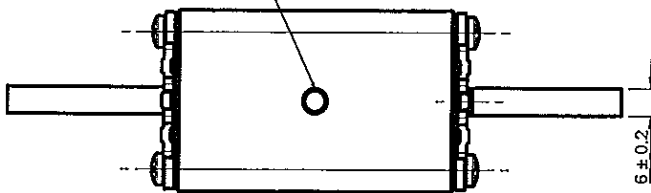
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

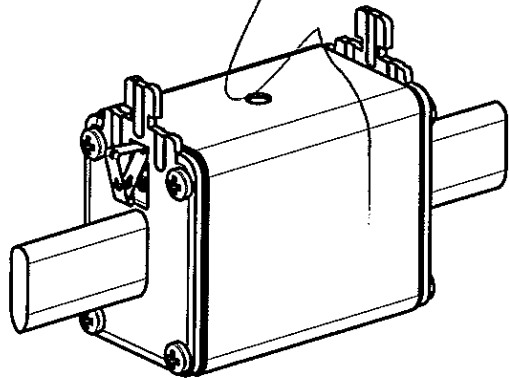
Size 1 with double indicator (160-250A) (118997 D)



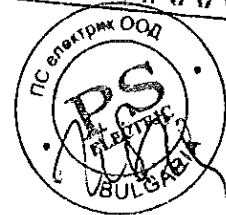
Visibility of red indicator signals conduction of the fuse-link. After operation the red indicator is no longer visible



Dimensions in mm



ВЯРНО С
ОРИГИНАЛА



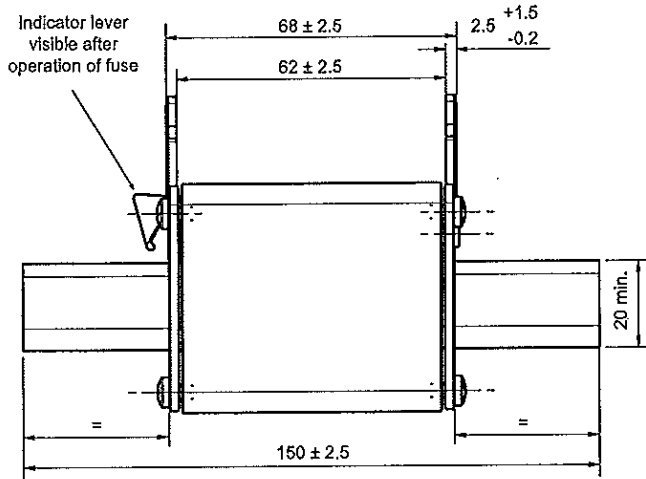
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

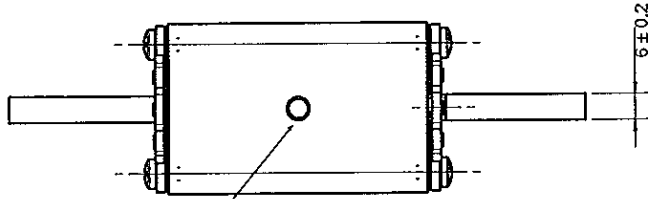
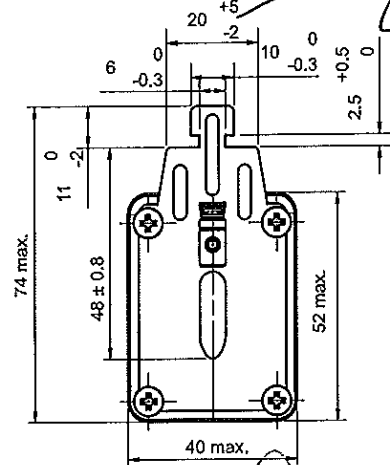
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

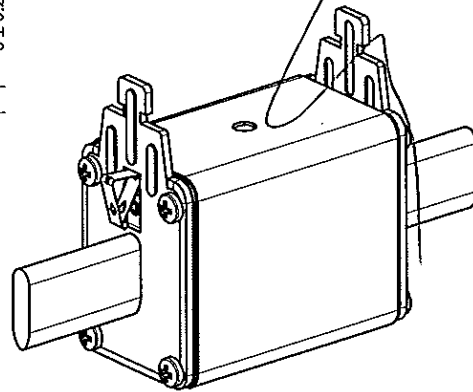
Size 2 compact with double indicator (35-250A) (1000412C)



Handwritten signature

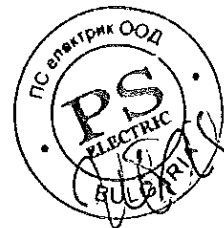


Visibility of red indicator signals conduction of the fuse-link. After operation the red indicator is no longer visible



Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



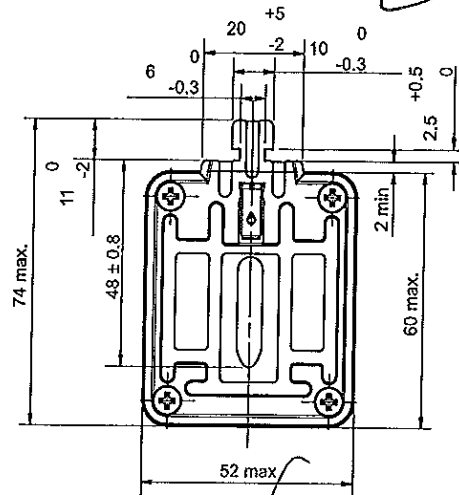
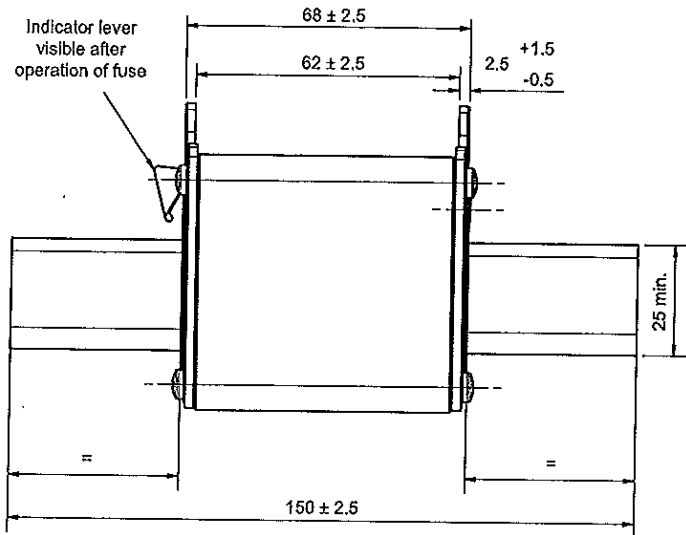
MERSEN reserves the right to change the data without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

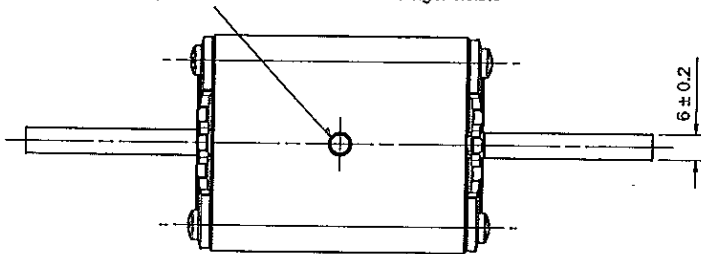
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

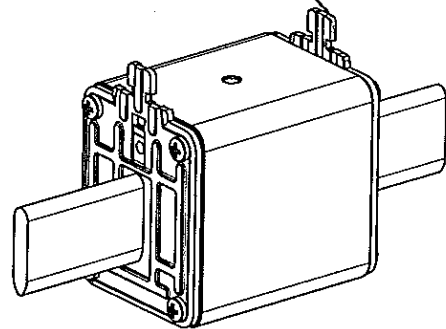
Size 2 with double indicator (315-400A) (119001 C)



Visibility of red indicator signals conduction of the fuse-link.
After operation the red indicator is no longer visible



Dimensions in mm



ВЯРНО С
ОРИГИНАЛА



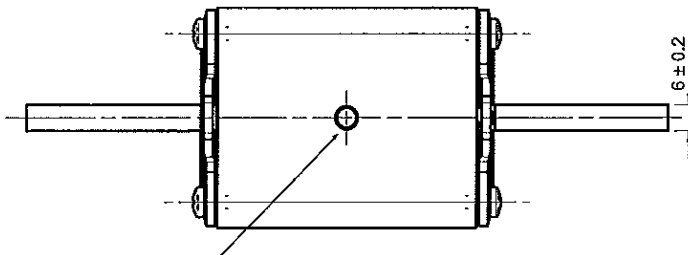
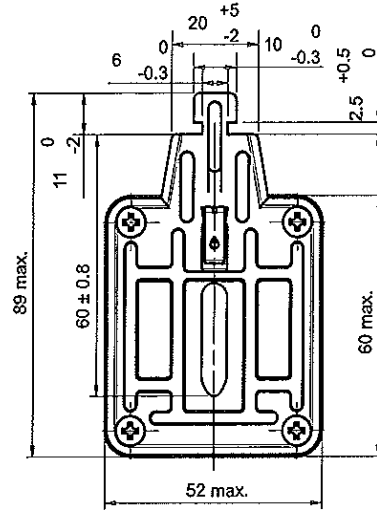
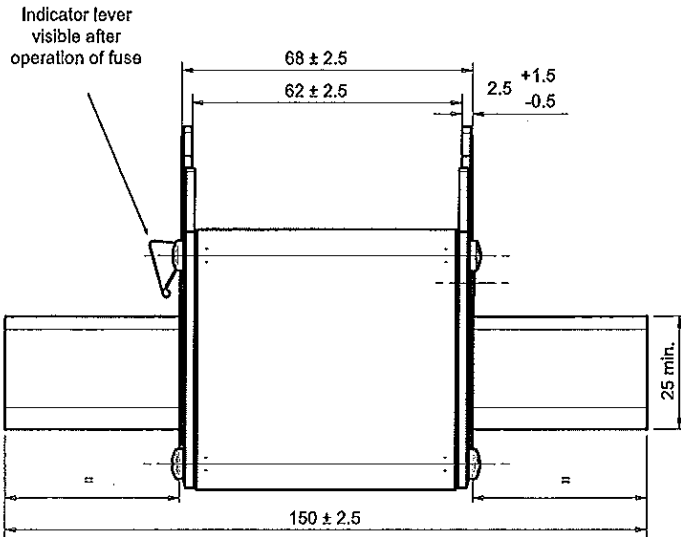
MERSEN reserves the right to change the size or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

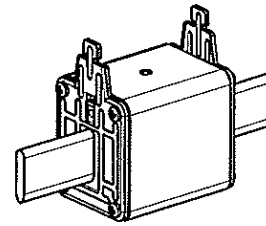
DIMENSIONS

Size 3 compact with double indicator (250-400A) (1000411B)



Visibility of red indicator signals conduction of the fuse-link.
After operation the red indicator is no longer visible

Dimensions in mm



ВЯРНО С
ОРИГИНАЛА



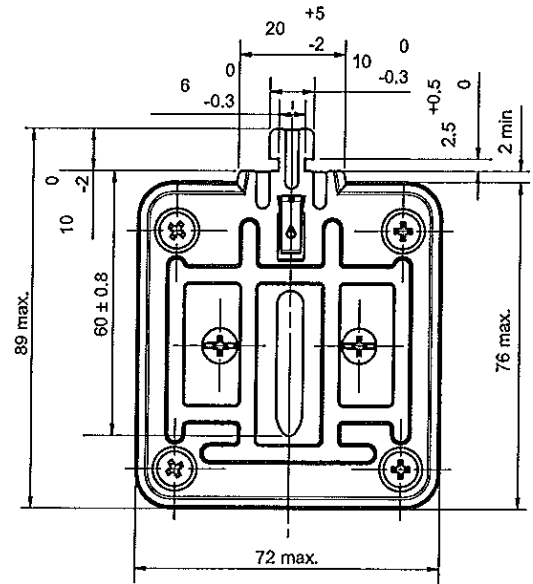
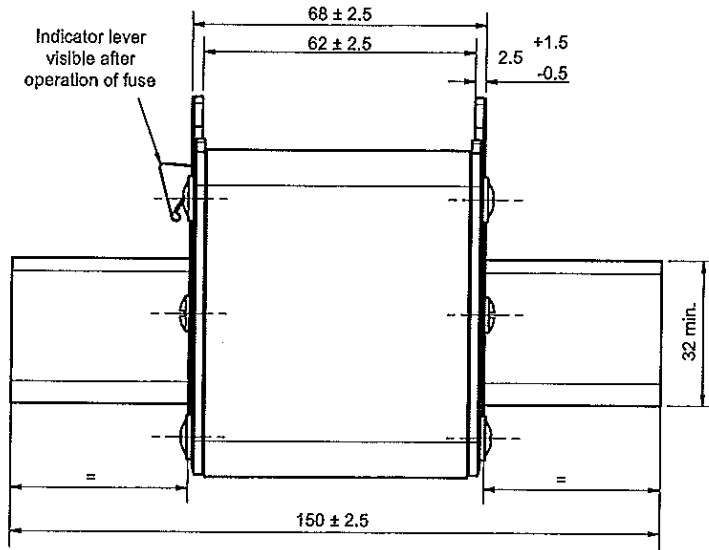
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

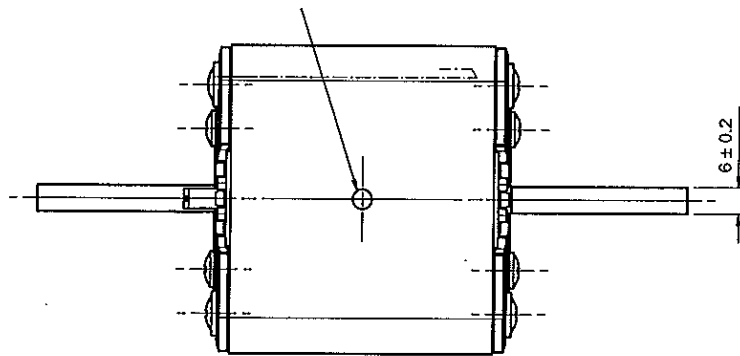
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

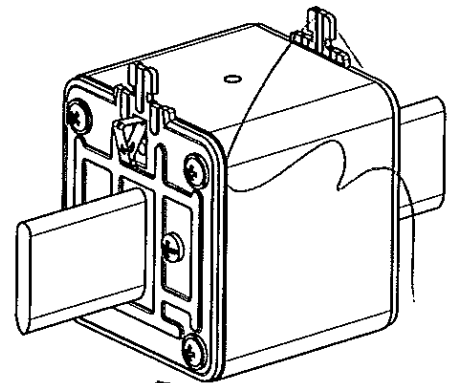
Size 3 with double Indicator (500-630A) (119002 C)



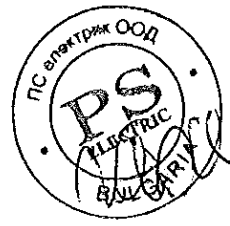
Visibility of red indicator signals conduction of the fuse-link.
After operation the red Indicator is no longer visible



Dimensions in mm



ВЯРНО С
ОРИГИНАЛА



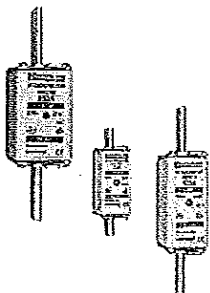
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

LOW VOLTAGE IEC FUSES

IEC NH FUSE-LINKS



FEATURES & BENEFITS

- Dimensions according to DIN 43 620 Parts 1 to 4
- Non-isolated gripping lugs
- Double indicator
- Lead free contact blades
- 0% cadmium

APPLICATIONS

- gG: general purpose cable and line protection

STANDARDS

- VDE 0636 Part 201
- IEC 60269-1 and -2

The NH system is classified among plug-in fuse systems and is composed of:

- fuse-base (possibly including terminal covers and phase barriers)
- fuse-link with blade contact
- fuse-link replacement device (LV HRC fuse puller)

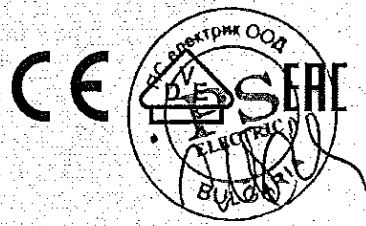
Since the design of this system cannot guarantee non-interchangeability of rated current it must be handled by a qualified professional.

Type "gG" NH fuse-links are full range breaking capacity fuse-links and are used to protect cables and equipment. They can interrupt any current surge, from the lowest fusing current up to their breaking capacity, and so can be used alone as protection. They also protect electrical devices and industrial set-ups from the electrodynamic effects of very high short-circuit currents.

Rated Power Dissipation values of Mersen NH fuse-links 400VAC are below the maximum values required by standard IEC 60269.

TECHNICAL DATA OVERVIEW

| | |
|----------------------|-----------------------|
| Voltage AC | 400 VAC |
| Ampere Range (A) | 2 ... 630 A |
| Size per Standard | Sizes 000 to 3 |
| Speed/Characteristic | gG |
| I.R. AC (IEC) | 100 kA |
| Body Material | ceramic |
| Contact Materials | copper, silver-plated |



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRODUCT RANGE



Size 000 gG 400VAC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current (I _n) | Power dissipation (W) | Width | Package | Weight |
|----------------|-------------|------------------------|---------------------------------|-----------------------|---------|---------|---------|
| NH000GG40V2 | Z223674 | 400 V | 2 A | 0.7 W | 20.8 mm | 3 | 0.13 kg |
| NH000GG40V4 | A223675 | 400 V | 4 A | 0.9 W | 20.8 mm | 3 | 0.13 kg |
| NH000GG40V6 | B223676 | 400 V | 6 A | 1.2 W | 20.8 mm | 3 | 0.13 kg |
| NH000GG40V10 | C223677 | 400 V | 10 A | 1.3 W | 20.8 mm | 3 | 0.13 kg |
| NH000GG40V16 | D223678 | 400 V | 16 A | 1.6 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V20 | E223679 | 400 V | 20 A | 1.9 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V25 | F223680 | 400 V | 25 A | 2.2 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V32 | G223681 | 400 V | 32 A | 2.7 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V35 | H223682 | 400 V | 35 A | 3.1 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V40 | J223683 | 400 V | 40 A | 3.5 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V50 | K223684 | 400 V | 50 A | 3.9 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V63 | L223685 | 400 V | 63 A | 5.2 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V80 | M223686 | 400 V | 80 A | 5.3 W | 20.8 mm | 9 | 0.13 kg |
| NH000GG40V100 | N223687 | 400 V | 100 A | 5.7 W | 20.8 mm | 9 | 0.13 kg |



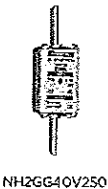
Size 00 gG 400VAC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current (I _n) | Power dissipation (W) | Width | Package | Weight |
|----------------|-------------|------------------------|---------------------------------|-----------------------|---------|---------|--------|
| NH00GG40V125 | E223702 | 400 V | 125 A | 7.4 W | 29.5 mm | 3 | 0.2 kg |
| NH00GG40V160 | F223703 | 400 V | 160 A | 8.3 W | 29.5 mm | 3 | 0.2 kg |



Size 1 gG 400VAC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current (I _n) | Power dissipation (W) | Width | Package | Weight |
|----------------|-------------|------------------------|---------------------------------|-----------------------|---------|---------|---------|
| NH1GG40V35 | J223706 | 400 V | 35 A | 4 W | 29.5 mm | 3 | 0.28 kg |
| NH1GG40V50 | K223707 | 400 V | 50 A | 5.2 W | 29.5 mm | 3 | 0.28 kg |
| NH1GG40V63 | L223708 | 400 V | 63 A | 6.8 W | 29.5 mm | 3 | 0.28 kg |
| NH1GG40V80 | M223709 | 400 V | 80 A | 6.2 W | 29.5 mm | 3 | 0.28 kg |
| NH1GG40V100 | N223710 | 400 V | 100 A | 8.6 W | 29.5 mm | 3 | 0.28 kg |
| NH1GG40V125 | P223711 | 400 V | 125 A | 9.8 W | 29.5 mm | 3 | 0.28 kg |
| NH1GG40V160 | Q223712 | 400 V | 160 A | 12.4 W | 39.5 mm | 3 | 0.41 kg |
| NH1GG40V200 | R223713 | 400 V | 200 A | 14.4 W | 39.5 mm | 3 | 0.41 kg |
| NH1GG40V224 | S223714 | 400 V | 224 A | 15.6 W | 39.5 mm | 3 | 0.41 kg |
| NH1GG40V250 | T223715 | 400 V | 250 A | 17.6 W | 39.5 mm | 3 | 0.41 kg |



Size 2 gG 400VAC

| Catalog number | Item number | Rated voltage AC (IEC) | Rated current (I _n) | Power dissipation (W) | Width | Package | Weight |
|----------------|-------------|------------------------|---------------------------------|-----------------------|---------|---------|---------|
| NH2GG40V35 | T227257 | 400 V | 35 A | 4.1 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V50 | V227258 | 400 V | 50 A | 5.4 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V63 | W227259 | 400 V | 63 A | 6.8 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V80 | F223726 | 400 V | 80 A | 6.4 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V100 | G223727 | 400 V | 100 A | 8.1 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V125 | H223728 | 400 V | 125 A | 10.2 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V160 | J223729 | 400 V | 160 A | 10.8 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V200 | K223730 | 400 V | 200 A | 15.2 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V224 | L223731 | 400 V | 224 A | 14.7 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V250 | M223732 | 400 V | 250 A | 17.1 W | 29.5 mm | 3 | 0.42 kg |
| NH2GG40V315 | N223733 | 400 V | 315 A | 20.1 W | 39.5 mm | 3 | 0.64 kg |
| NH2GG40V355 | P223734 | 400 V | 355 A | 22.6 W | 39.5 mm | 3 | 0.64 kg |
| NH2GG40V400 | Q223735 | 400 V | 400 A | 25.4 W | 39.5 mm | 3 | 0.64 kg |

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRODUCT RANGE

Size 3 gG 400VAC

| Parting number | Item number | Rated voltage AC (U _{gG}) | Rated current | Power dissipation (P) | Width | Package | Weight |
|----------------|-------------|-------------------------------------|---------------|-----------------------|---------|---------|---------|
| NH3GG40V250 | R223736 | 400 V | 250 A | 15.4 W | 39.5 mm | 1 | 0.65 kg |
| NH3GG40V315 | S223737 | 400 V | 315 A | 19.8 W | 39.5 mm | 1 | 0.65 kg |
| NH3GG40V400 | T223738 | 400 V | 400 A | 25.0 W | 39.5 mm | 1 | 1.05 kg |
| NH3GG40V500 | V223739 | 400 V | 500 A | 31.1 W | 51 mm | 1 | 1.05 kg |
| NH3GG40V630 | W223740 | 400 V | 630 A | 39 W | 51 mm | 1 | 1.05 kg |

TECHNICAL DATA

| | Size 000 gG 400VAC | Size 00 gG 400VAC | Size 1 gG 400VAC | Size 2 gG 400VAC | Size 3 gG 400VAC |
|----------------------------|--------------------|-------------------|------------------|------------------|------------------|
| Rated current | 2 ... 100 A | 125 ... 160 A | 35 ... 250 A | 35 ... 400 A | 250 ... 630 A |
| Rated breaking capacity AC | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA |
| Rated voltage AC | 400 V | 400 V | 400 V | 400 V | 400 V |
| Indication System | double indicator | double indicator | double indicator | double indicator | double indicator |
| Width | 21 mm | 30 mm | 40 mm | 51 mm | 70 mm |

ВЯРНО С
ОРИГИНАЛА



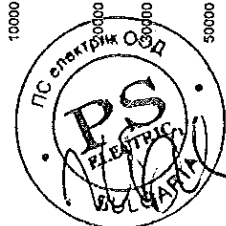
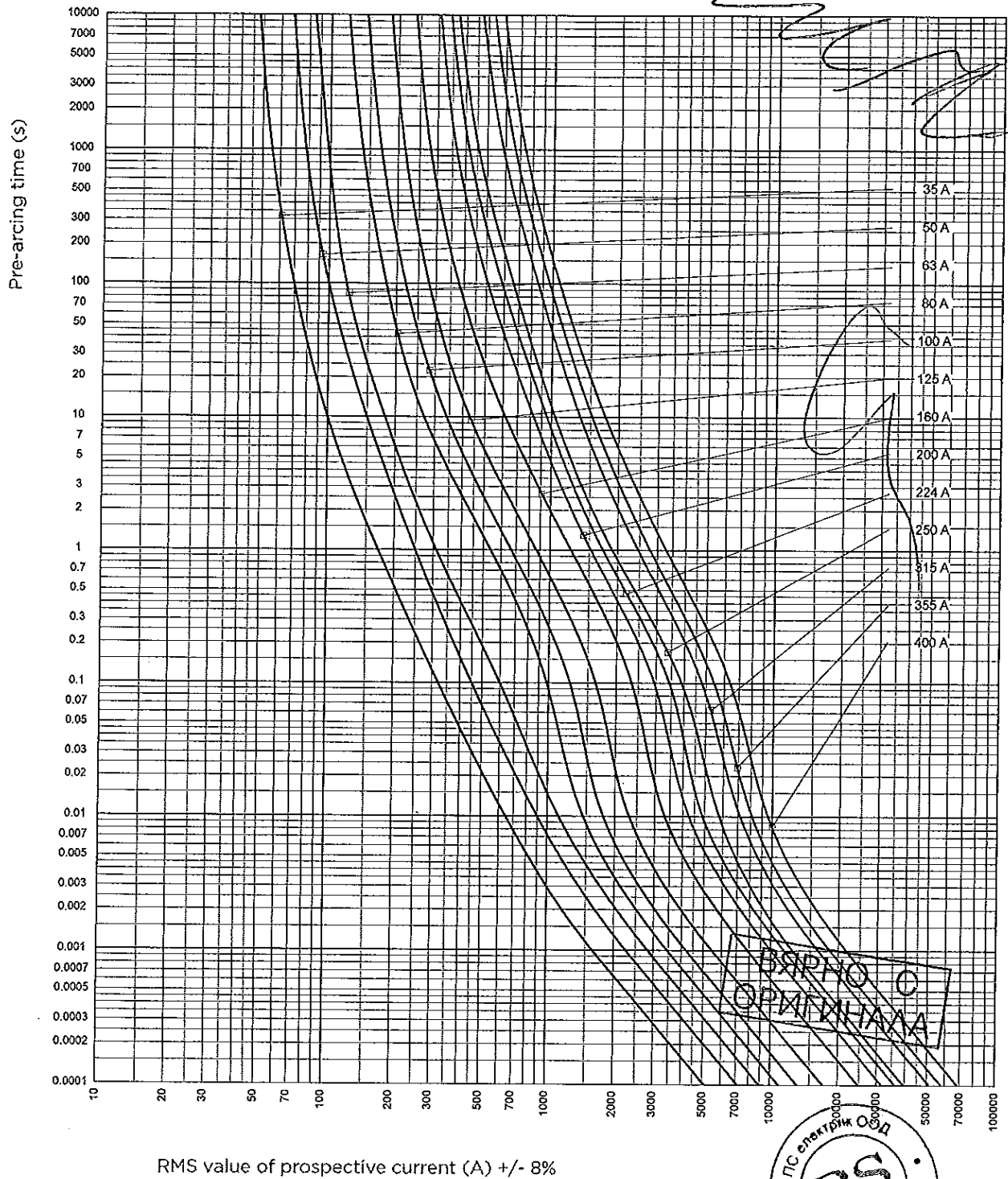
MERSEN reserves the right to change, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

TIME CURRENT CHARACTERISTIC CURVES

Size 2



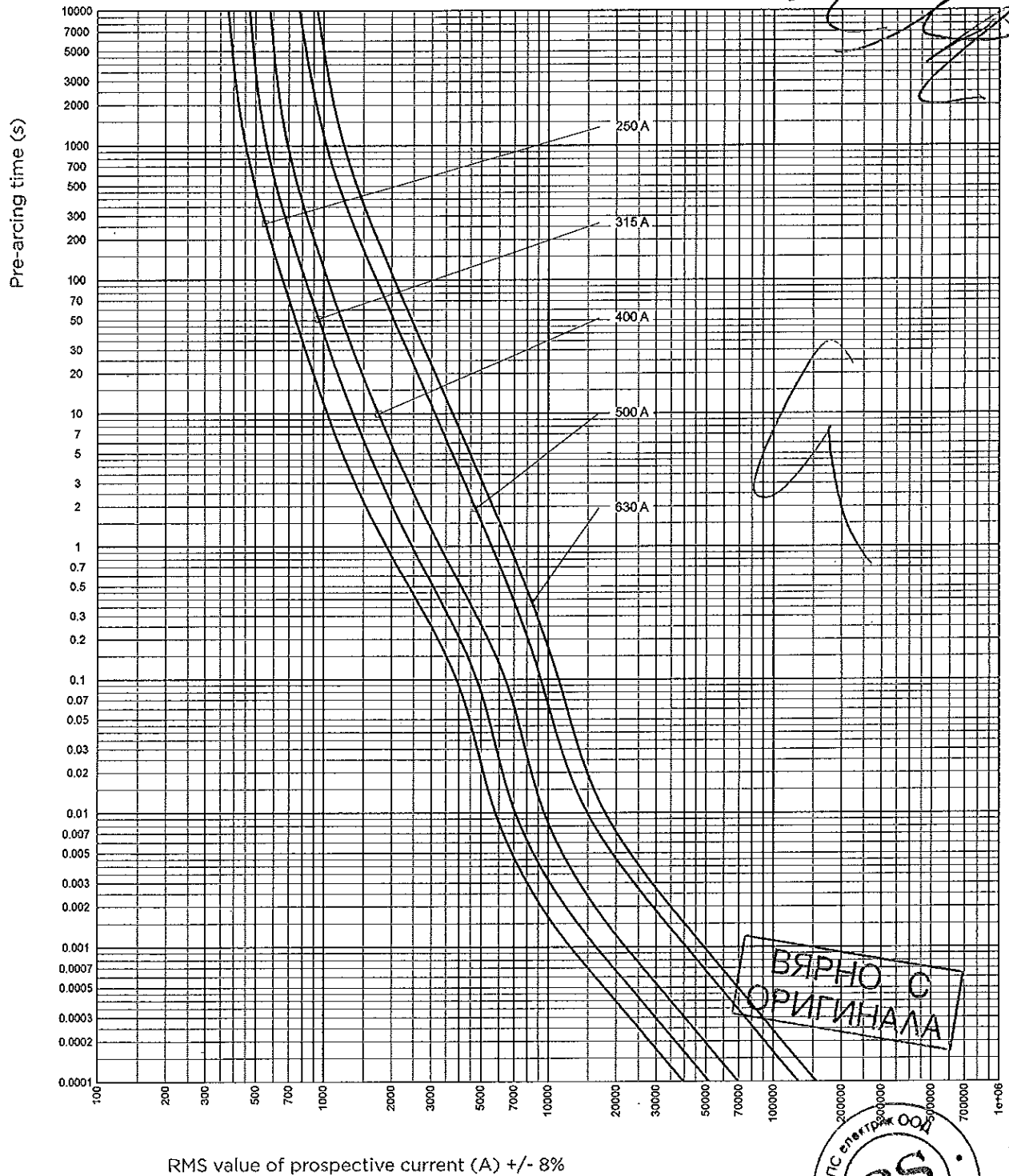
MERSEN reserves the right to change, update or correct without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

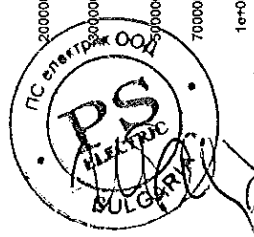
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

TIME CURRENT CHARACTERISTIC CURVES

Size 3



ВЯРНО С
ОРИГИНАЛА



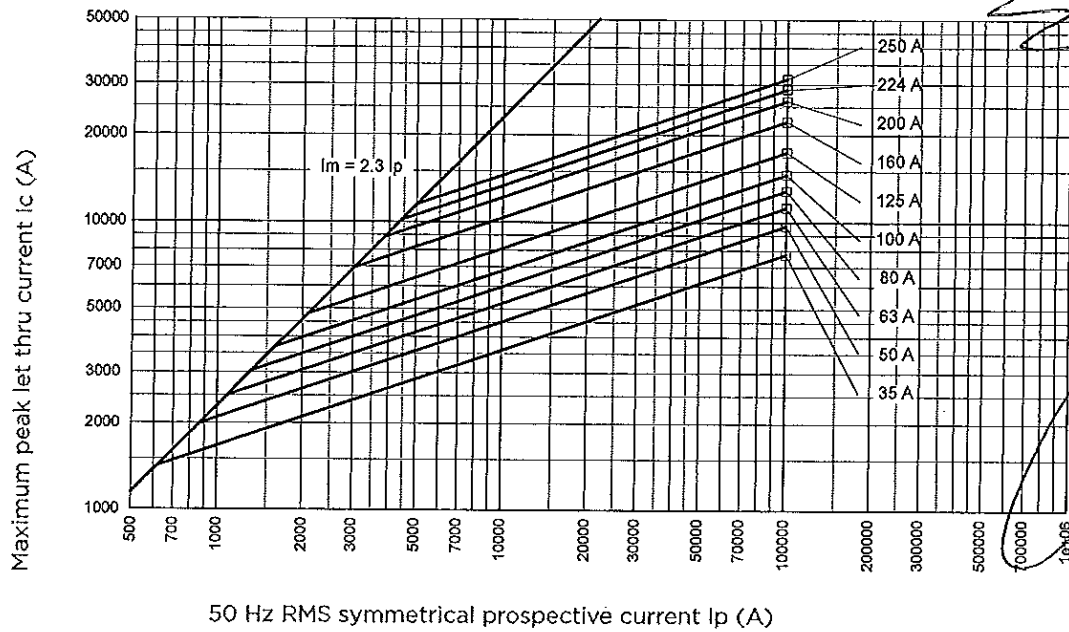
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

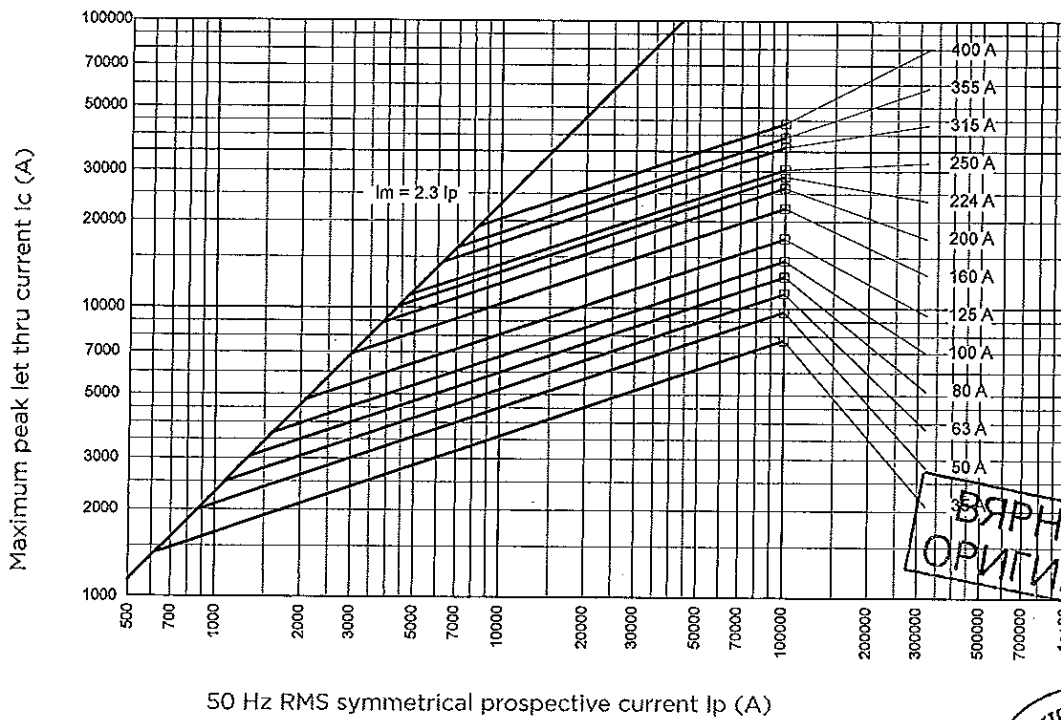
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

CUT-OFF CURRENT CHARACTERISTIC

Size 1



Size 2



MERSEN reserves the right to change, update or correct, without notice, any info contained in this datasheet.

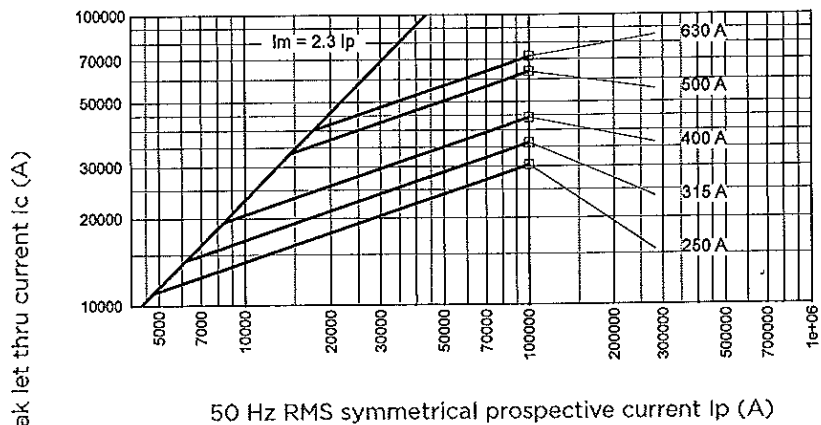


NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

CUT-OFF CURRENT CHARACTERISTIC

Size 3



Handwritten signature

Handwritten signature

ВЯРНО С
ОРИГИНАЛА



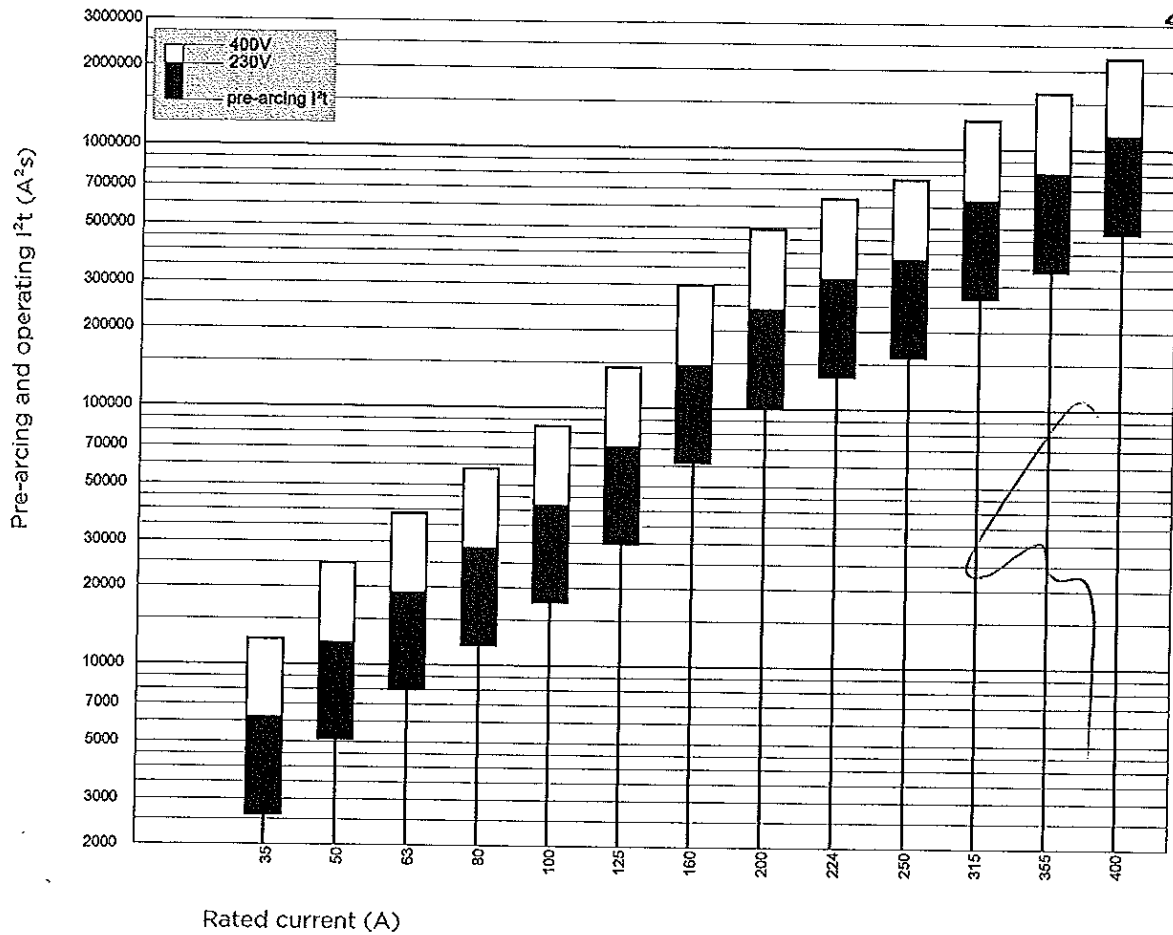
MERSEN reserves the right to change, update or correct without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRE-ARCING AND OPERATING I²T CHARACTERISTICS

Size 2



ВЯРНО С
ОРИГИНАЛА



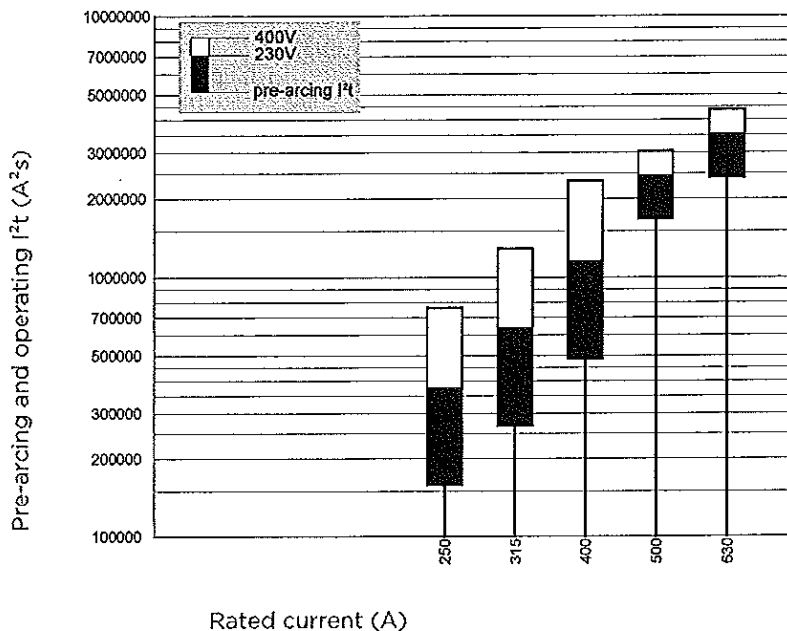
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

double indicator/live gripping-lugs size 000, 00, 1, 2, 3

PRE-ARCING AND OPERATING I²t CHARACTERISTICS

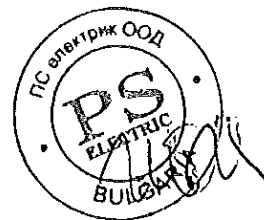
Size 3



[Handwritten signature]

[Handwritten signature]

ВЯРНО С
ОРИГИНАЛА



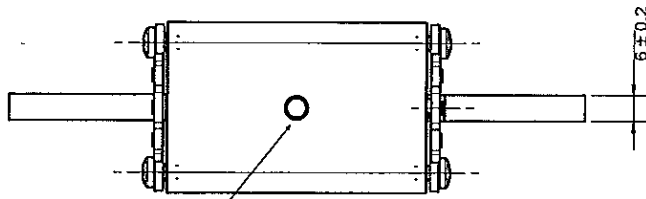
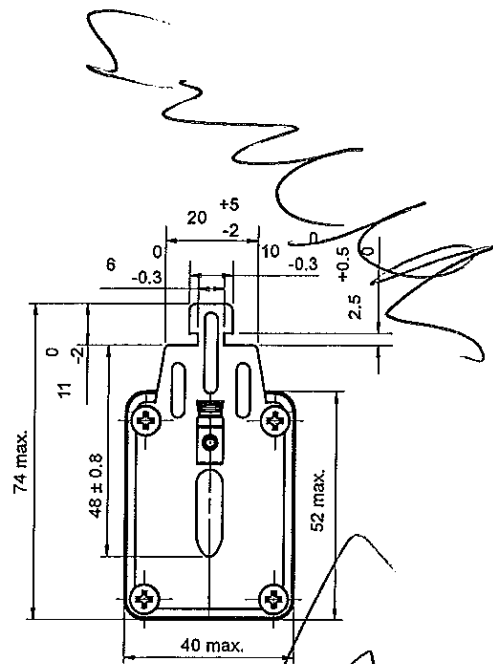
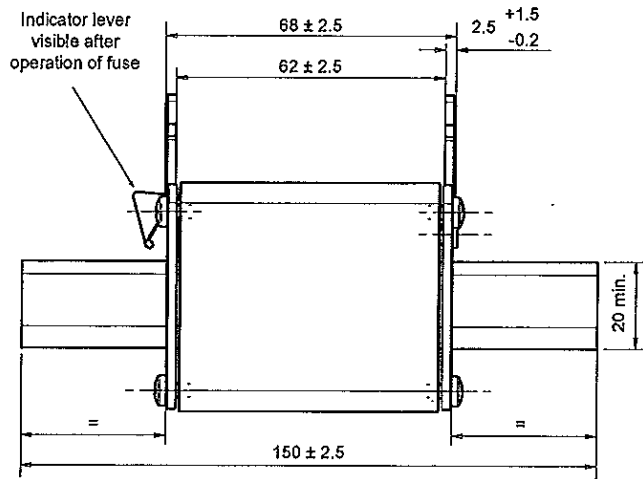
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

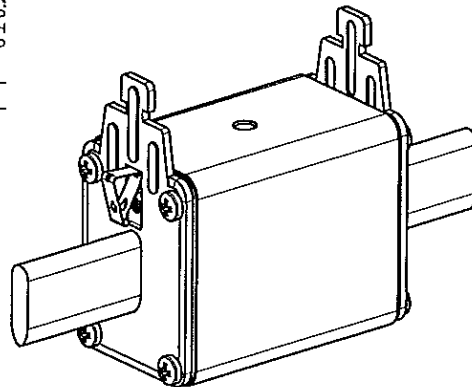
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

Size 2 compact with double indicator (35-250A) (1000412C)

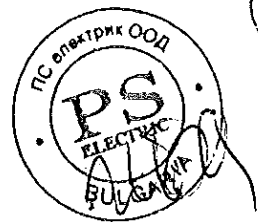


Visibility of red indicator signals conduction of the fuse-link. After operation the red indicator is no longer visible



Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



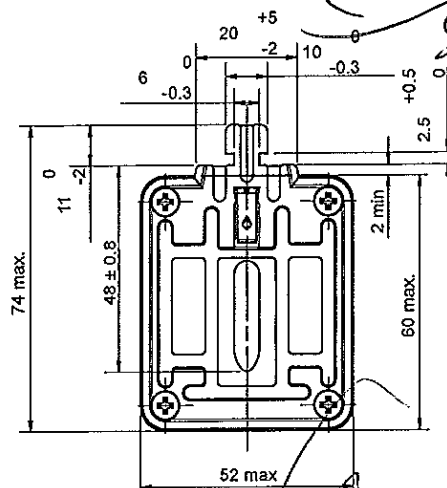
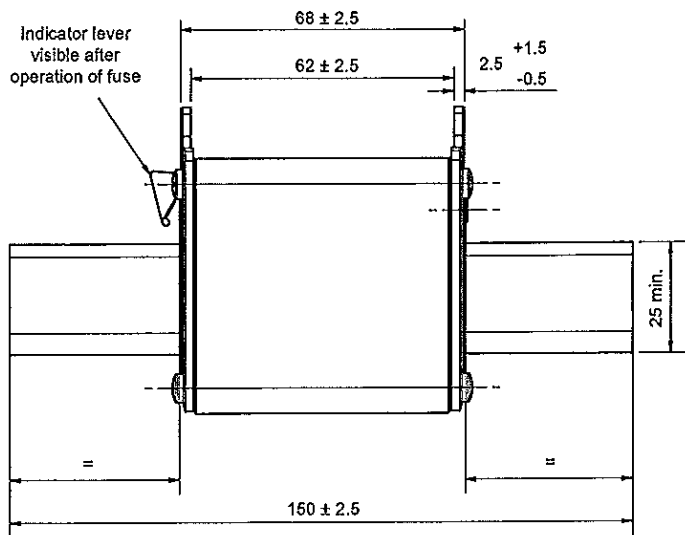
MERSEN reserves the right to change, duplicate or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

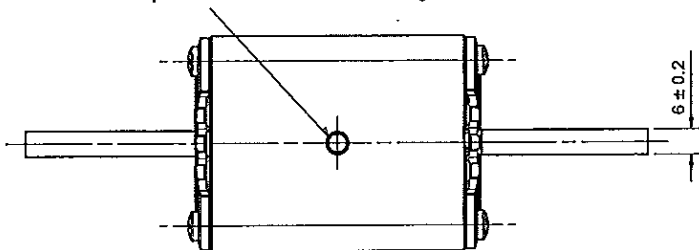
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

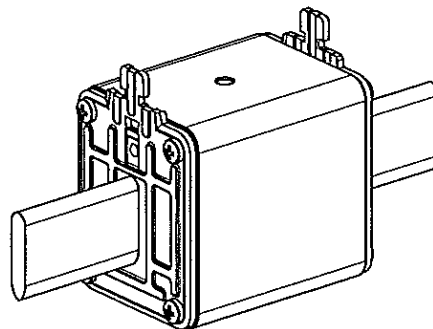
Size 2 with double indicator (315-400A) (119001 C)



Visibility of red indicator signals conduction of the fuse-link.
After operation the red indicator is no longer visible



Dimensions in mm



ВЯРНО С
ОРИГИНАЛА



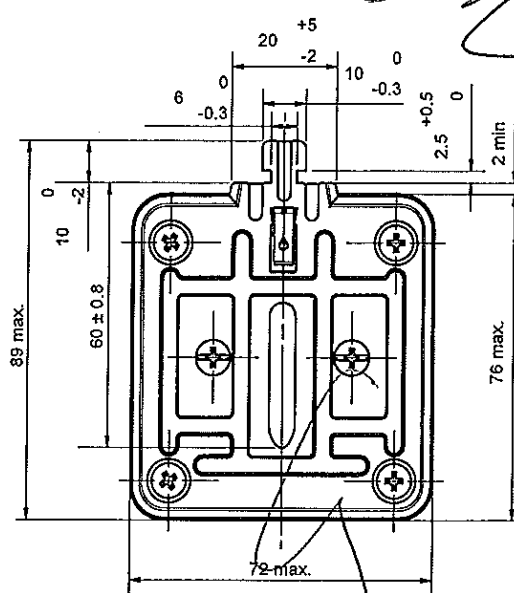
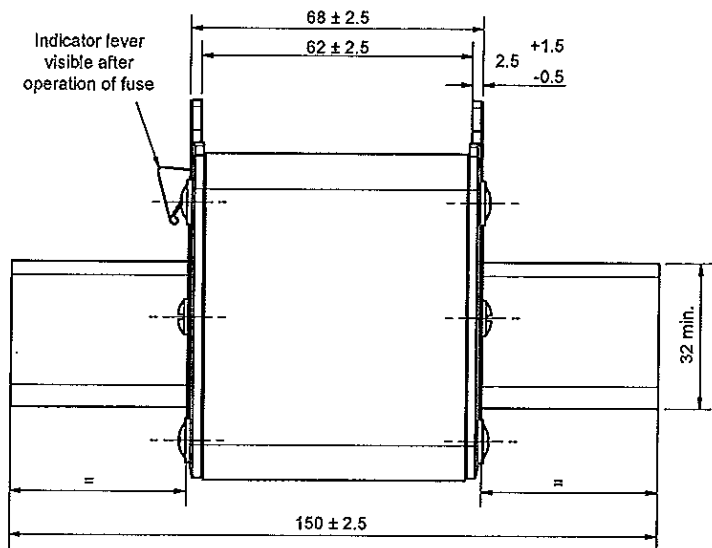
MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

NH fuse-links gG 400VAC

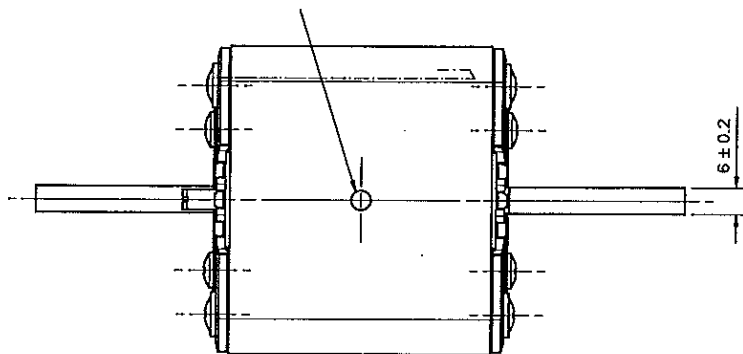
double indicator/live gripping-lugs size 000, 00, 1, 2, 3

DIMENSIONS

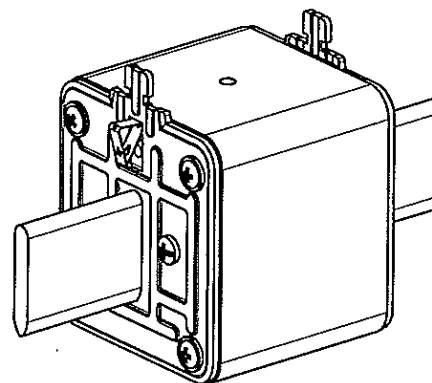
Size 3 with double indicator (500-630A) (I19002 C)



Visibility of red indicator signals conduction of the fuse-link.
After operation the red indicator is no longer visible



Dimensions in mm



ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any info contained in this datasheet.



EU DECLARATION OF CONFORMITY / DECLARATION DE CONFORMITE UE

We / Nous **Mersen France SB** sas 15, Rue Jacques Vaucanson 69720 Saint Bonnet de Mure France

Website / Site web **ep-fr.mersen.com** (this declaration is downloadable / cette déclaration est téléchargeable)

Certify that products with the registered trade mark / Certifions que les produits de la marque Mersen ® or / ou FERRAZ SHAWMUT ® ,

Blade type fuses w-w/o indicator- striker / Fusibles à couteaux avec-ou sans indicateur-percuteur
NH000, NH00, NH0, NH1, NH2, NH3, NH4, NH4a, AM, GG, GTR & accessories / et accessoires

Provided that they are installed, maintained and used as intended and in accordance with the current installation standards according to manufacturer's recommendations, comply with the following Directives

Sous réserve d'installations, d'entretien et d'utilisation conformes à leur destination, aux normes d'installations applicables et aux instructions du constructeur, satisfont aux exigences des Directives suivantes:

Low Voltage 2014/35/EU
Rohs 2011/65/EU

Basse Tension 2014/35/UE
Rohs 2011/65/UE

And are in compliance with the following standards / et sont conformes aux normes suivantes:

EN 60269-1 Ed.2007 / A1:2009 / A2:2014
HD 60269-2 Ed.2013

DIN 43620 Ed. 1984

ВЯРНО С
ОРИГИНАЛА

Saint Bonnet de Mure le 05 Septembre 2017 Name / Nom

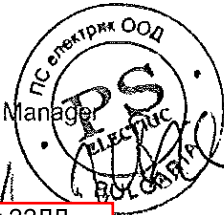
; Bruno THOMAS

Position / Fonction

: Product Certification Manager

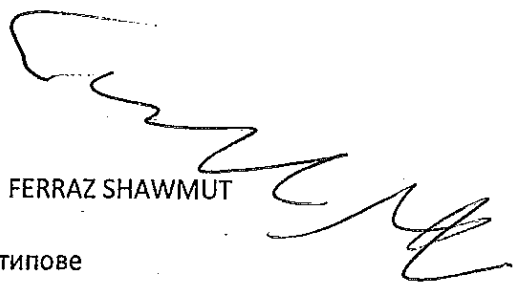
Signature / Signature

на основание чл. 2 от ЗЗЛД



DECLARATION CE N° 0 0 3 4 V

Декларация за съответствие
Ние Mersen france SB
интернет страница ep-fr.mersen.com



че продуктите с регистрирана търговска марка Mersen или FERRAZ SHAWMUT

Ножови предпазители със и/или без индикатори-ударник типове

NH000, NH00, NH0, MH1, MH2, NH3, NH4, NH4a, AM, GG, GTR и аксесоарите към тях

При условие че са инсталирани, поддържани и използвани по предназначение и в съответствие с стандарти и препоръки на производителя, отговарят на следните директиви:

Ниско напрежение 2014/35/EU
Rohs 2011/65/EU

И отговарят на изчисленията на следните стандарти:
EN 60269-1 ed.2007 / A1 : 2009 / A2 : 2014
DIN 43260 ed. 1984
HD 60269-2 ed.2013

Дата 05.09.2017 Подписи и печати

16.03.2018 г.
ГР. ШУМЕН

на основание чл. 2 от ЗЗЛД

/инж. И.НИКОЛОВ/



Reach status DECLARATION

Nous/We **Mersen France SB SAS 15, Rue de Vaucanson 69720 Saint Bonnet de Mure Cedex France**

Hereby declare that products with the registered trade mark FERRAZ SHAWMUT ®, or Mersen Certifions par ce document que les produits de la marque FERRAZ SHAWMUT ®, or Mersen

| Blade type fuses , fusibles à couteaux (catalog number structure) | | | | | |
|---|--|-----------------------|-----------------|---------------------------|----------|
| type | size/taille | class/classe | voltage/tension | rating/calibre (A or KVA) | suffixes |
| NH | 000 or 00 or 0 or 1 or 2 or 3 or 4 or 4a | AM or GG or GTR | xxV | xxx | divers |

Neutral blade type NH sizes / Cartouches neutres à couteaux NH tailles : 0, 00, 1, 2, 3, 4

do not contain any of the 174 SVHC substances at a rate of more than 0.1% by weight according to the current valid candidate list nor any substance of Annex 17, according to ECHA since July 07, 2017 .

The present declaration is based on a permanent communication with our suppliers .

In case of any change, we would inform ECHA and our customers according to Reach requests.

Mersen France SB is not concerned by the Reach registration procedure, (being neither a producer nor an importer of substances/preparations).

We periodically review the ECHA candidate list , and we ask our suppliers to commit to deliver pieces , parts and products , free of SVHC substances at a rate of more than 0.1% by weight , for every order .

As an article Downstream user in the value chain, Mersen will :

- Continue to drive a strict policy of Occupational Health and Safety based on up to date versions of Safety Data Sheets..
- Monitor by-the-supplier-identified uses of Substances and Preparations contained in our products,
- Seek out possibilities to substitute or reformulate in anticipation of possible disappearances of Substances or products.

Mersen's active communication policy with our suppliers and customers may help avoid any adverse effect of the Reach Regulation on our products, in order to continue ensuring and enhancing the safety of people and property.

Ne contiennent aucune des 174 substances SVHC à plus de 0,1% en masse de la liste candidate, ni substance de l'Annexe 17 de l' ECHA depuis le 07 juillet 2017 .

La déclaration présente est basée sur une communication permanente avec nos fournisseurs .

En cas de changement, nous informerions l'ECHA et nos clients selon les exigences Reach .

Mersen France SB n'est pas concernée par la procédure d'enregistrement (ni producteur ni importateur de substance/préparation).

Nous vérifions périodiquement la liste candidate de l'ECHA , et demandons à nos fournisseurs leur engagement de nous livrer des pièces/produits libres de substance SVHC à plus de 0,1% en masse à chaque commande.

En tant qu'utilisateur aval d'articles dans la chaine d'approvisionnement , Mersen

- Poursuit avec rigueur une politique de Santé/Sécurité sur la base des versions à jour des Fiches de Données de Sécurité,
- Surveille les usages identifiés par les fournisseurs des Substances et Préparations utilisées dans nos produits,
- S'informe des possibilités de substitution/reformulation pour anticiper d'éventuelles disparitions de Substances/Préparations.

La politique active de communication de Mersen avec ses fournisseurs et clients doit permettre d'éviter tout impact négatif de Reach sur nos produits, afin de continuer à servir la Sécurité des biens et des personnes.

Saint Bonnet de Mure le : 19 juillet 2017

Nom / Name :

Bruno THOMAS

Fonction / Position : Europe Product Certification and High Concerned Material Manager

Signature / Signature :

на основание чл. 2 от ЗЗЛД

DECLARATION REACH N° 0 | 0 | 0 | 3 | Q

Stamp: ВЪРНО С ОРИГИНАЛ
Stamp: С ВЪРНАТОК ООД
Stamp: BULGARIA

4



Marine & Offshore
Division

Certificate number: 03924/E1 BV
File number: ACE 03/017/01
Product code: 2645H

This certificate is not valid when presented without the full attached schedule composed of 7 sections

www.veristar.com

TYPE APPROVAL CERTIFICATE

This certificate is issued to
MERSEN FRANCE SB S.A.S
SAINT BONNET DE MURE - FRANCE

for the type of product
FUSES / FUSES COMBINATION UNITS (LOW VOLTAGE)
Fuse links with indicator NH00, NH0, NH1, NH2, NH3 series (aM, gG).

Requirements:
BV Rules for the Classification of Steel Ships.
IEC 60269-1 (2009).

This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 23 Dec 2020

For BUREAU VERITAS,
At BV LYON, on 03 Apr 2017,
Jean-Marc Cabuzel

на основание чл. 2 от ЗЗЛД



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine & Offshore Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION :

| Designation/Fuse-link | Rated voltage(V) | Rated current (A) | Breaking capacity(kA) | |
|-----------------------|------------------|-------------------|-----------------------|---------------|
| Knife-Cartridge | | | 120 kA 400/500V | |
| NH00 gG | 690 | 8-100 | | |
| NH00 gG | 500 | 125-160 | | |
| | | | | |
| NH00 aM | 690 | 16-100 | | |
| NH00 aM | 500 | 125-160 | | |
| | | | | |
| NH0 gG | 690 | 10-100 | | 80 kA 690V |
| NH0 gG | 500 | 125-160 | | |
| NH0 aM | 690 | 40-160 | | |
| | | | | |
| NH1 gG | 690 | 16-200 | | |
| NH1 gG | 500 | 224-355 | | |
| NH1 aM | 690 | 50-250 | | |
| | | | | |
| NH2 gG | 690 | 32-315 | | |
| NH2 gG | 500 | 355-500 | | |
| NH2 aM | 690 | 100-400 | | |
| | | | | |
| NH3 gG | 690 | 315-500 | | |
| NH3 gG | 500 | 630-800 | | |
| NH3 aM | 690 | 315-500 | | |
| NH3 aM | 500 | 630 | | |

2. DOCUMENTS AND DRAWINGS :

Specification ref. DS-LFBCA5-05-0416_EN, dated 21.Jun.2016.
 Specification ref. DS-LFBCA54-03-0616_EN, dated 21.Jun.2016.
 Specification ref. DS-LFBCA6-05-0416_EN, dated 21.Jun.2016.
 Specification ref. DS-LFBCS4-06-0616_EN, dated 21.Jun.2016.
 Specification ref. DS-LFBCG5-04-0416_EN, dated 22.Jun.2016.
 Specification ref. DS-LFBCG6-04-0416_EN, dated 21.Jun.2016.

3. TEST REPORTS :

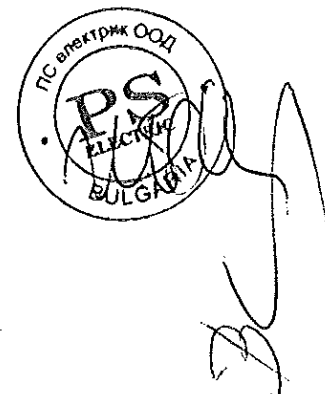
According to test reports filed in ACE 03/017/01.

4. APPLICATION / LIMITATION :

- 4.1 - BV Rules for the Classification of Steel Ships.
 4.2 - Approval also valid for ships to be granted with the notations: AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.

5. PRODUCTION SURVEY REQUIREMENTS :

- 5.1 - The NH series are to be supplied by **MERSEN FRANCE SB S.A.S** in compliance with the type description in this certificate.
 5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.
 5.3 - **MERSEN FRANCE SB S.A.S** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products.



6. MARKING OF PRODUCT :

The items prescribed below shall be marked on a easily visible place of fuse surface in an indelible way.

- 1 - Rated voltage (V)
- 2 - Rated current (A)
- 3 - Rated breaking capacity
- 4 - Fusing Factor
- 5 - Manufacturer's name
- 6 - Model N°
- 7 - Approved class name.

7. OTHERS :

7.1 - It is MERSEN FRANCE SB S.A.S responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes the Type Approval Certificate N° 03924/E0 BV issued on 23 Dec.2015. by the Society.

*** END OF CERTIFICATE ***



ВЯРНО С
ОРИГИНАЛА





Ref. Certif. No.

DE1-58281

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Fuse-link, NH-System

Name and address of the applicant

Mersen France SB S.A.S.
15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE
FRANCE

Name and address of the manufacturer

Mersen France SB S.A.S.
15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE
FRANCE

Name and address of the factory

FUSETECH Kft.
Guba Sandor ut. 38, 7400 KAPOSVAR
HUNGARY

Note: When more than one factory, please report on page 2

Additional Information on page 2

Rating and principal characteristics

see additional information on page 2

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

NH3GG50Vxxx; NH3GG50Vxxx-1,
NH32GG50Vxxx; NH32GG50Vxxx-1

Additional information (if necessary may also be reported on page 2)

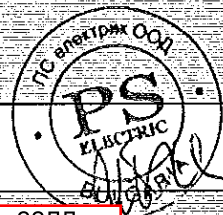
Additional Information on page 2

IEC 60269-1:2006
IEC 60269-1:2006/AMD1:2009
IEC 60269-1:2006/AMD2:2014
IEC 60269-2:2013
IEC 60269-2:2013/AMD1:2016

A sample of the product was tested and found to be in conformity with

As shown in the Test Report Ref. No. which forms part of this Certificate

230314-CC2-1 to -2



This CB Test Certificate is issued by the National Certification Body

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierung Produkte / Certification Products

на основание чл. 2 от ЗЗЛД

Date: 2017-01-30

Signature: J. Richter

IEC

TECEE
CB
SCHEME

Ref. Certif. No.

DE1-58281

| | |
|--|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Additional information (if necessary)

Un: 500V a.c.

Breaking capacity: 120 kA

Characteristic: gG

Size 3

Type / In:

NH3GG50Vxxx (energized / compact size) 250 ... 400A

NH3GG50Vxxx-1 (de-energized / compact size) 250 ... 400A

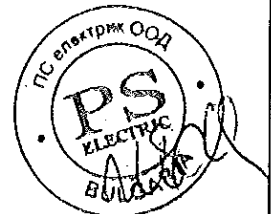
NH32GG50Vxxx (energized / normal size) 250 ... 400A

NH32GG50Vxxx-1 (de-energized / normal size) 250 ... 400A

NH3GG50Vxxx (energized / normal size) 500 ... 630A

NH3GG50Vxxx-1 (de-energized / normal size) 500 ... 630A

ВЯРНО С
ОРИГИНАЛА



VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierung Produkte / Certification Products

на основание чл. 2 от ЗЗЛД

Date: 2017-01-30

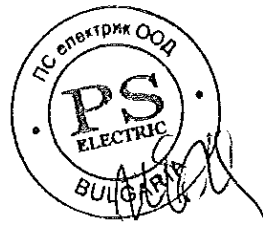
Signature: J. Richter

Списък на изпитанията

Към Сертификат №DE1-58281 с тестови протокол №230314-CC2-1:2

На Високомощни ножови предпазители NH3 500V

1. Изпитания съгласно стандарт IEC 60269-1:2006;
2. Изпитания съгласно стандарт IEC 60269-1:2006/AMD1:2009;
3. Изпитания съгласно стандарт IEC 60269-1:2006/AMD2:2009;
4. Изпитания съгласно стандарт IEC 60269-2:2013;
5. Изпитания съгласно стандарт IEC 60269-2:2013/AMD2:2006;



Handwritten signature

Handwritten signature

Handwritten signature



Ref. Certif. No.

DE1-58279

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Fuse-link, NH-System

Name and address of the applicant

Mersen France SB S.A.S.
15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Name and address of the manufacturer

Mersen France SB S.A.S.
15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Name and address of the factory

FUSETECH Kft.
Guba Sandor ut. 38, 7400 KAPOSVAR HUNGARY

Note: When more than one factory, please report on page 2

Additional Information on page 2

RATINGS and principal characteristics

see additional information on page 2

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

NH2GG50Vxxx; NH2GG50Vxxx-1,
NH2GG50Vxxx; NH2GG50Vxxx-1

Additional information (if necessary may also be reported on page 2)

see additional information on page 2

Additional Information on page 2

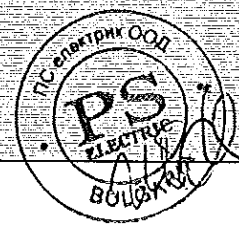
A sample of the product was tested and found to be in conformity with

IEC 60269-1:2006
IEC 60269-1:2006/AMD1:2009
IEC 60269-2:2013
IEC 60269-2:2013/AMD1:2016

As shown in the Test Report Ref. No. which forms part of this Certificate

230292-CC2-1; 230292-CC2-2

ВЯРНО С
ОРИГИНАЛА



This CB Test Certificate is issued by the National Certification Body

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierung Produkte / Certification Products

на основание чл. 2 от ЗЗЛД

Date: 2017-01-30

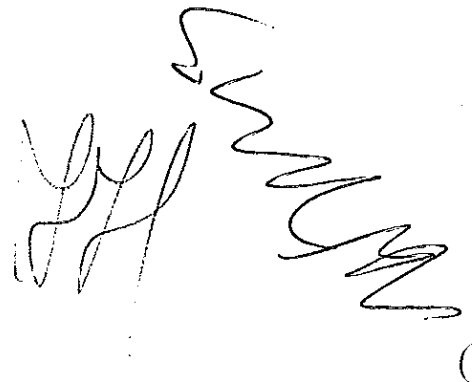
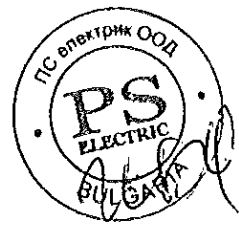
Signature: J. Richter

Списък на изпитанията

Към Сертификат №DE1-58279 с тестови протокол №230292-CC2-1; №230292-CC2-2

На Високомощни ножови предпазители NH2 500V

1. Изпитания съгласно стандарт IEC 60269-1:2006;
2. Изпитания съгласно стандарт IEC 60269-1:2006/AMD1:2009;
3. Изпитания съгласно стандарт IEC 60269-2:2013;
4. Изпитания съгласно стандарт IEC 60269-2:2013/AMD2:2006;

A large, stylized handwritten signature in black ink, located to the right of the list of tests.A smaller handwritten signature in black ink, located below the first large signature.A handwritten signature in black ink, located at the bottom right of the page.

VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG MARKS APPROVAL

Mersen France SB S.A.S.
15 Rue Jacques de Vaucanson
69720 SAINT BONNET DE MURE
FRANCE

ist berechtigt, für ihr Produkt /
is authorized to use for their product
Sicherungseinsatz, NH-System

Fuse-link, NH-System
NH3GG40Vxxx
NH3GG40Vxxx-1

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 60269-1 (VDE 0636-1):2015-05; EN 60269-1:2007 + A1:2009 + A2:2014
DIN VDE 0636-2 (VDE 0636-2):2014-09 HD 60269-2:2013



ВЯРНО С
ОРИГИНАЛА

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification
на основание чл. 2 от ЗЗЛД



Aktenzeichen: 5003214-1150-0012 / 217877
File ref.:
Ausweis-Nr. 40041833
Certificate No.
Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages
Offenbach, 2015-03-05
(letzte Änderung / updated: 2015-12-21)



ung unter:
on: <http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. / Page
40041833 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder
Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / File ref.
5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / updated Datum / Date
2015-12-21 2015-03-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40041833.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40041833.

Sicherungseinsatz, NH-System

Fuse-link, NH-System

NH3GG40Vxxx
NH3GG40Vxxx-1

Typ(en) / Type(s)

NH3GG40Vxxx
NH3GG40Vxxx-1

| | |
|--|---|
| Bemessungsspannung Rated voltage | 400 V a.c. |
| Bemessungsstrom Rated current | 250 A; 315 A; 400 A; 500 A; 630 A |
| Bemessungsfrequenz Rated frequency | 45 bis/to 62 Hz |
| Bemessungsausschaltvermögen Rated breaking capacity | 100 kA |
| Baugröße Size | 3 |
| Abmessung | Typen mit Maßen der kleineren Baugröße: NH3GG40V250(-1); NH3GG40V315(-1); NH3GG40V400(-1) |
| Dimension | Typen mit Standardmaßen: NH3GG40V500(-1); NH3GG40V630(-1) Types with dimensions of smaller size: NH3GG40V250(-1); NH3GG40V315(-1); NH3GG40V400(-1) Types with standard dimensions: NH3GG40V500(-1); NH3GG40V630(-1) |
| Betriebsklasse Utilization category | gG |
| Griff flasche Gripping lug | spannungsführend (NH3GG40Vxxx) spannungsfrei (NH3GG40Vxxx-1) energized (NH3GG40Vxxx) de-energized (NH3GG40Vxxx-1) |
| Anzeigevorrichtung Indicating device | Anzeiger vorne und oben Indicator in front and at the top |

Fortsetzung siehe Blatt 3 /
continued on page 3



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. / Page
40041833 3

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder
Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / File ref.
5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / updated Datum / Date
2015-12-21 2015-03-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40041833.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40041833.

Dieser Zeichengenehmigungs-Ausweis bildet eine Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den grundlegenden Schutzanforderungen der **EG-Niederspannungsrichtlinie (2006/95/EG bis 19.04.2016; 2014/35/EU ab 20.04.2016)**.

*This Marks Approval is a basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and proves the conformity with the essential safety requirements of the **EC Low-Voltage Directive (2006/95/EC until 2016-04-19, 2014/35/EU from 2016-04-20)**.*

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2

ВЯРНО С
ОРИГИНАЛА



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Beiblatt /
Certificate No. Supplement
40041833

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder
Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / File ref.
5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / updated Datum / Date
2015-12-21 2015-03-05

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40041833.
This supplement is part of the Certificate No. 40041833.

Sicherungseinsatz, NH-System

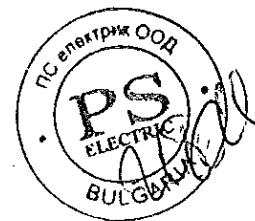
Fuse-link, NH-System
NH3GG40Vxxx
NH3GG40Vxxx-1

Fertigungsstätte(n)
Place(s) of manufacture

Referenz/Reference FUSETECH Kft.
30008637 Guba Sandor ut. 38
H-7400 KAPOSVAR

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2

ВЯРНО С
ОРИГИНАЛА



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Infoblatt /
Certificate No. Info sheet
40041833

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder
Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / File ref.
5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / updated Datum / Date
2015-12-21 2015-03-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40041833.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40041833.

Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH (www.vde.com \AGB-Institut). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

Approval to use the legally protected Mark of the VDE as shown on the first page:

Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute (www.vde.com \terms-institute). The right to use the mark is granted only to the mentioned company with the named places of manufacture and the listed products with the related type references. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured.

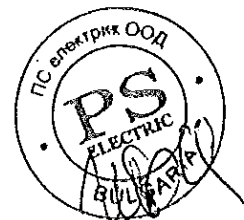
The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).

The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.

Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.

ВАРНО
ОРИГИНАЛ



VDE Prüf- und Zertifizierungsinstitut

ZEICHENGENEHMIGUNG MARKS APPROVAL

Mersen France SB S.A.S.
15 Rue Jacques de Vaucanson
69720 SAINT BONNET DE MURE
FRANCE

ist berechtigt, für ihr Produkt /
is authorized to use for their product
Sicherungseinsatz, NH-System

Fuse-link, NH-System
NH3GG40Vxxx
NH3GG40Vxxx-1

die hier abgebildeten markenrechtlich geschützten Zeichen
für die ab Blatt 2 aufgeführten Typen zu benutzen /
the legally protected Marks as shown below for the types referred to on page 2 ff.



Geprüft und zertifiziert nach /
Tested and certified according to

DIN EN 60269-1 (VDE 0636-1):2015-05; EN 60269-1:2007 + A1:2009 + A2:2014
DIN VDE 0636-2 (VDE 0636-2):2014-09 HD 60269-2:2013

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Zertifizierungsstelle / Certification

на основание чл. 2 от ЗЗЛД

ntlichung unter:
shed on:

Aktenzeichen: 5003214-1150-0012 / 2176
File ref.:

Ausweis-Nr.: 40041833

Certificate No.

Weitere Bedingungen siehe Rückseite und Folgeblätter /
further conditions see overleaf and following pages

Offenbach, 2015-03-05

(letzte Änderung / updated: 2015-12-21)

<http://www.vde.com/zertifikat>
<http://www.vde.com/certificate>



VDE



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. / Page
40041833 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder
Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / File ref.
5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / updated
2015-12-21

Datum / Date
2015-03-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40041833.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40041833.

Sicherungseinsatz, NH-System

Fuse-link, NH-System

NH3GG40Vxxx
NH3GG40Vxxx-1

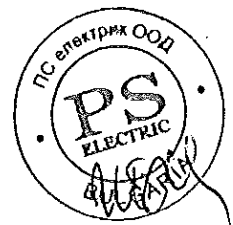
Typ(en) / Type(s)

NH3GG40Vxxx
NH3GG40Vxxx-1

| | |
|--|---|
| Bemessungsspannung Rated voltage | 400 V a.c. |
| Bemessungsstrom Rated current | 250 A; 315 A; 400 A; 500 A; 630 A |
| Bemessungsfrequenz Rated frequency | 45 bis/to 62 Hz |
| Bemessungsausschaltvermögen Rated breaking capacity | 100 kA |
| Baugröße Size | 3 |
| Abmessung | Typen mit Maßen der kleineren Baugröße: NH3GG40V250(-1); NH3GG40V315(-1); NH3GG40V400(-1) |
| Dimension | Typen mit Standardmaßen: NH3GG40V500(-1); NH3GG40V630(-1) Types with dimensions of smaller size: NH3GG40V250(-1); NH3GG40V315(-1); NH3GG40V400(-1) Types with standard dimensions: NH3GG40V500(-1); NH3GG40V630(-1) |
| Betriebsklasse Utilization category | gG |
| Griff flasche Gripping lug | spannungsführend (NH3GG40Vxxx) spannungsfrei (NH3GG40Vxxx-1) energized (NH3GG40Vxxx) de-energized (NH3GG40Vxxx-1) |
| Anzeigevorrichtung Indicating device | Anzeiger vorne und oben Indicator in front and at the top |

Fortsetzung siehe Blatt 3 /
continued on page 3

VDE Prüf- und Zertifizierungsinstitut GmbH * Testing and Certification Institute



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Blatt /
Certificate No. / Page
40041833 3

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder
Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / File ref.
5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / updated Datum / Date
2015-12-21 2015-03-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40041833.
This supplement is only valid in conjunction with page 1 of the Certificate No. 40041833.

Dieser Zeichengenehmigungs-Ausweis bildet eine Grundlage für die EG-Konformitätserklärung und CE-Kennzeichnung durch den Hersteller oder dessen Bevollmächtigten und bescheinigt die Konformität mit den grundlegenden Schutzanforderungen der **EG-Niederspannungsrichtlinie (2006/95/EG bis 19.04.2016, 2014/35/EU ab 20.04.2016)**.

*This Marks Approval is a basis for the EC Declaration of Conformity and the CE Marking by the manufacturer or his agent and proves the conformity with the essential safety requirements of the **EC Low-Voltage Directive (2006/95/EC until 2016-04-19, 2014/35/EU from 2016-04-20)**.*

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2

ВЯРНО С
ОРИГИНАЛА



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. /
Certificate No. 40041833
Beiblatt /
Supplement

Name und Sitz des Genehmigungs-Inhabers / *Name and registered seat of the Certificate holder*
Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / *File ref.*
5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / *updated* Datum / *Date*
2015-12-21 2015-03-05

Dieses Beiblatt ist Bestandteil des Zeichengenehmigungsausweises Nr. 40041833.
This supplement is part of the Certificate No. 40041833.

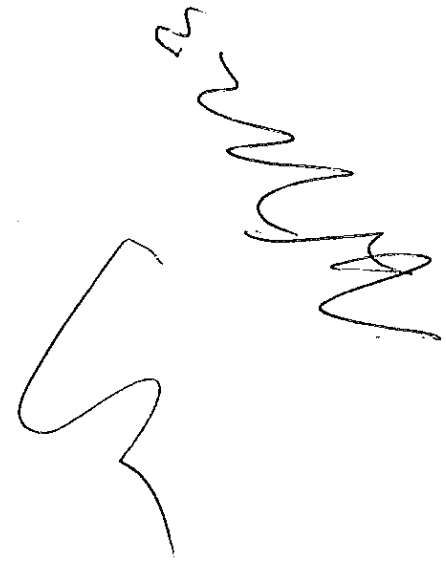
Sicherungseinsatz, NH-System

Fuse-link, NH-System
NH3GG40Vxxx
NH3GG40Vxxx-1

Fertigungsstätte(n)
Place(s) of manufacture

Referenz/*Reference* FUSETECH Kft.
30008637 Guba Sandor ut. 38
H-7400 KAPOSVAR

VDE Prüf- und Zertifizierungsinstitut GmbH
VDE Testing and Certification Institute
Fachgebiet CC2
Section CC2



ВЯРНО С
ОРИГИНАЛА



VDE Prüf- und Zertifizierungsinstitut Zeichengenehmigung

Ausweis-Nr. / Infoblatt /
Certificate No. / Info sheet
40041833

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Certificate holder

Mersen France SB S.A.S., 15 Rue Jacques de Vaucanson, 69720 SAINT BONNET DE MURE, FRANCE

Aktenzeichen / File ref.

5003214-1150-0012 / 217877 / CC2 / KOH

letzte Änderung / updated

2015-12-21

Datum / Date

2015-03-05

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Zeichengenehmigungsausweises Nr. 40041833.

This supplement is only valid in conjunction with page 1 of the Certificate No. 40041833.

Genehmigung zum Benutzen des auf Seite 1 abgebildeten markenrechtlich geschützten Zeichens des VDE:

Grundlage für die Benutzung sind die Allgemeinen Geschäftsbedingungen (AGB) der VDE Prüf- und Zertifizierungsinstitut GmbH (www.vde.com\AGB-Institut). Das Recht zur Benutzung erstreckt sich nur auf die bezeichnete Firma mit den genannten Fertigungsstätten und die oben aufgeführten Produkte mit den zugeordneten Bezeichnungen. Die Fertigungsstätte muss so eingerichtet sein, dass eine gleichmäßige Herstellung der geprüften und zertifizierten Ausführung gewährleistet ist.

Die Genehmigung ist so lange gültig wie die VDE-Bestimmungen gelten, die der Zertifizierung zugrunde gelegen haben, sofern sie nicht auf Grund anderer Bedingungen aus der VDE Prüf- und Zertifizierungsordnung (PM102) zurückgezogen werden muss.

Der Gültigkeitszeitraum einer VDE-GS-Zeichengenehmigung kann auf Antrag verlängert werden. Bei gesetzlichen und / oder normativen Änderungen kann die VDE-GS-Zeichengenehmigung ihre Gültigkeit zu einem früheren als dem angegebenen Datum verlieren.

Produkte, die das Biozid Dimethylfumarat (DMF) enthalten, dürfen gemäß der Kommissionsentscheidung 2009/251/EG nicht mehr in den Verkehr gebracht oder auf dem Markt bereitgestellt werden.

Der VDE-Zeichengenehmigungsausweis wird ausschließlich auf der ersten Seite unterzeichnet.

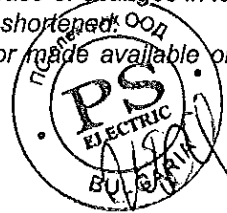
Approval to use the legally protected Mark of the VDE as shown on the first page:

Basis for the use are the general terms and conditions of the VDE Testing and Certification Institute (www.vde.com\terms-institute). The right to use the mark is granted only to the named company with the named places of manufacture and the listed products with the related type reference. The place of manufacture shall be equipped in a way that a constant manufacturing of the certified construction is assured. The approval is valid as long as the VDE specifications are in force, on which the certification is based on, unless it is withdrawn according to the VDE Testing and Certification Procedure (PM102E).

The validity period of a VDE-GS-Mark Approval may be prolonged on request. In case of changes in legal and / or normative requirements, the validity period of a VDE-GS-Mark Approval may be shortened.

Products containing the biocide dimethylfumarate (DMF) may not be marketed or made available on the EC market according to the Commission Decision 2009/251/EC.

The approval is solely signed on the first page.



„ПС електрик“ ООД

Рутинни изпитания

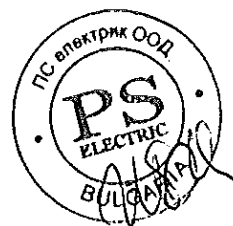
Предпазители със стопяема вложка ниско напрежение NH2 и NH 3

1. Измерване на съпротивлението, проверка за функция на непрекъснатост на стопяемата нишка.
2. Визуална проверка за наранявания, пукнатини и счупвания по тялото.

Дата: 14.03.2018 г

Съставил: Н. Николов

на основание чл. 2 от ЗЗЛД



[Handwritten signature]

[Handwritten signature]

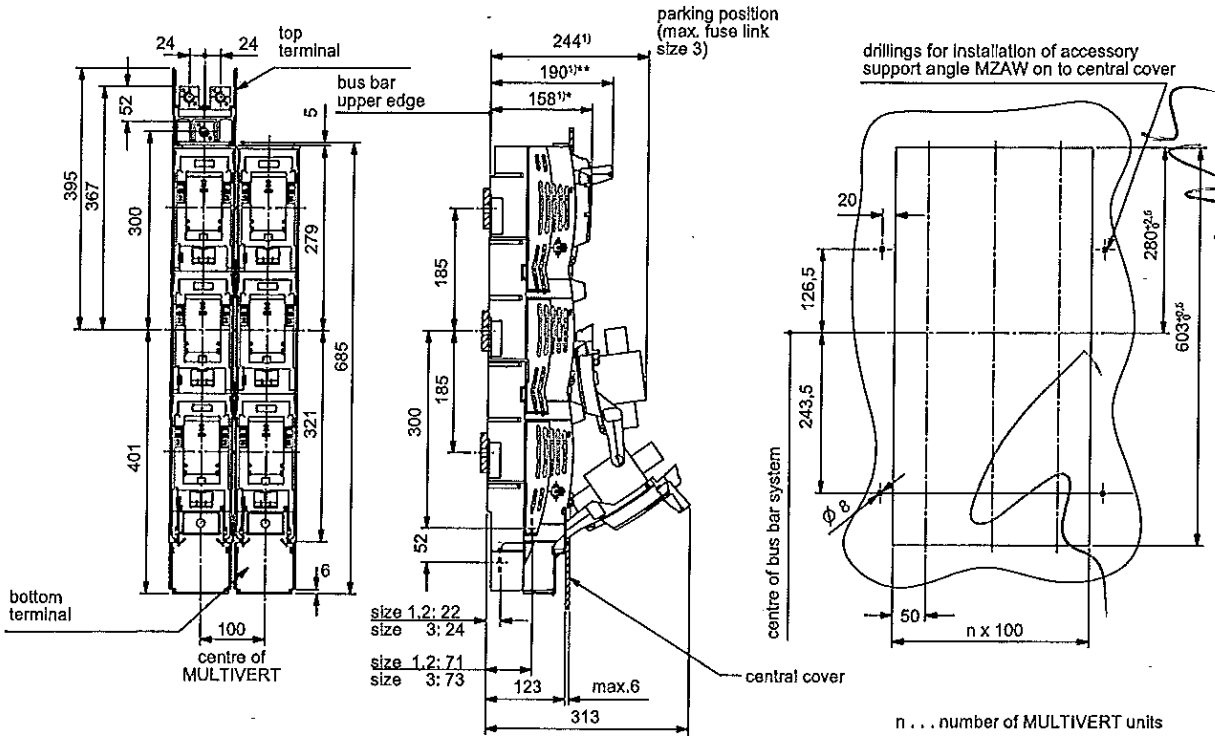
MULTIVERT® 400A

Size 2, 690VAC

17

DIMENSIONS

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 3 x single pole switching.
direct installation with screws on to 185mm bus bar system (M01152b)



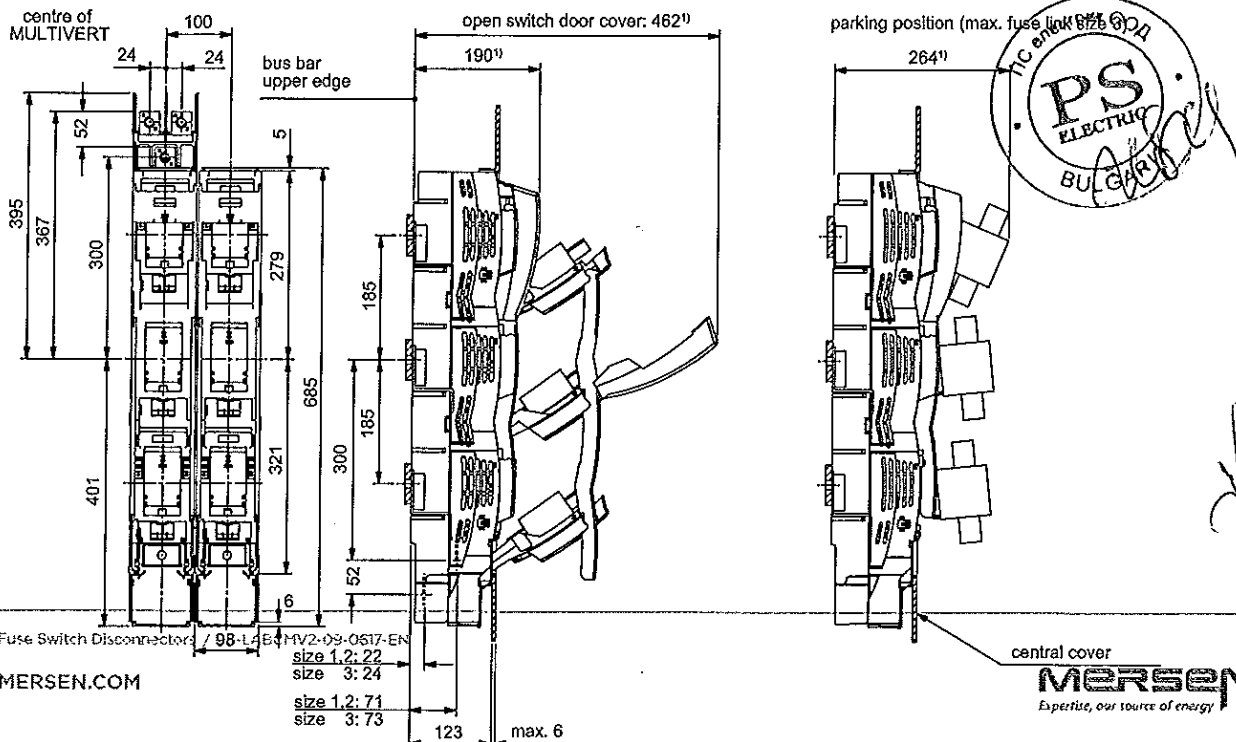
1) dimension from upper edge of bus bar

* 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
** 190 mm handle in open position (fixed) = switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 1 x triple pole switching
direct installation with screws on to 185mm bus bar system (M01153b)



IEC Fuse Switch Disconnectors / 98-14-E4-MV2-03-0617-EN

EP.MERSEN.COM

size 1,2: 22
size 3: 24
size 1,2: 71
size 3: 73

central cover
MERSEN
Expertise, our source of energy

MERSEN reserves the right to change dimensions or contact, without notice, any information contained in this datasheet.

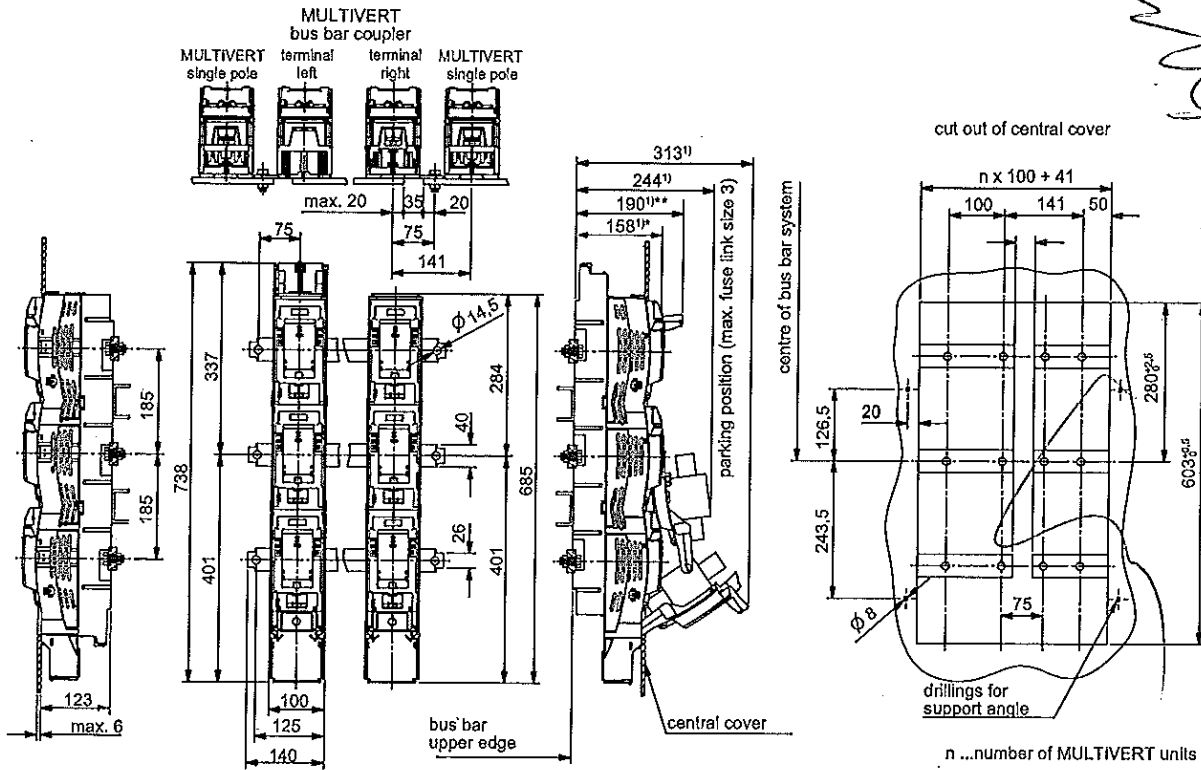
MULTIVERT® 400A

Size 2, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A bus bar coppler switch with lateral terminals
3 x single pole switching

(M01159a)

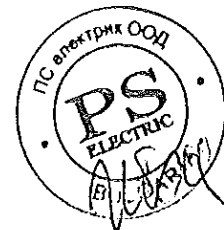


1) dimensions form upper edge of bus bar

* 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
** 190 mm handle in open position (fixed) - switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

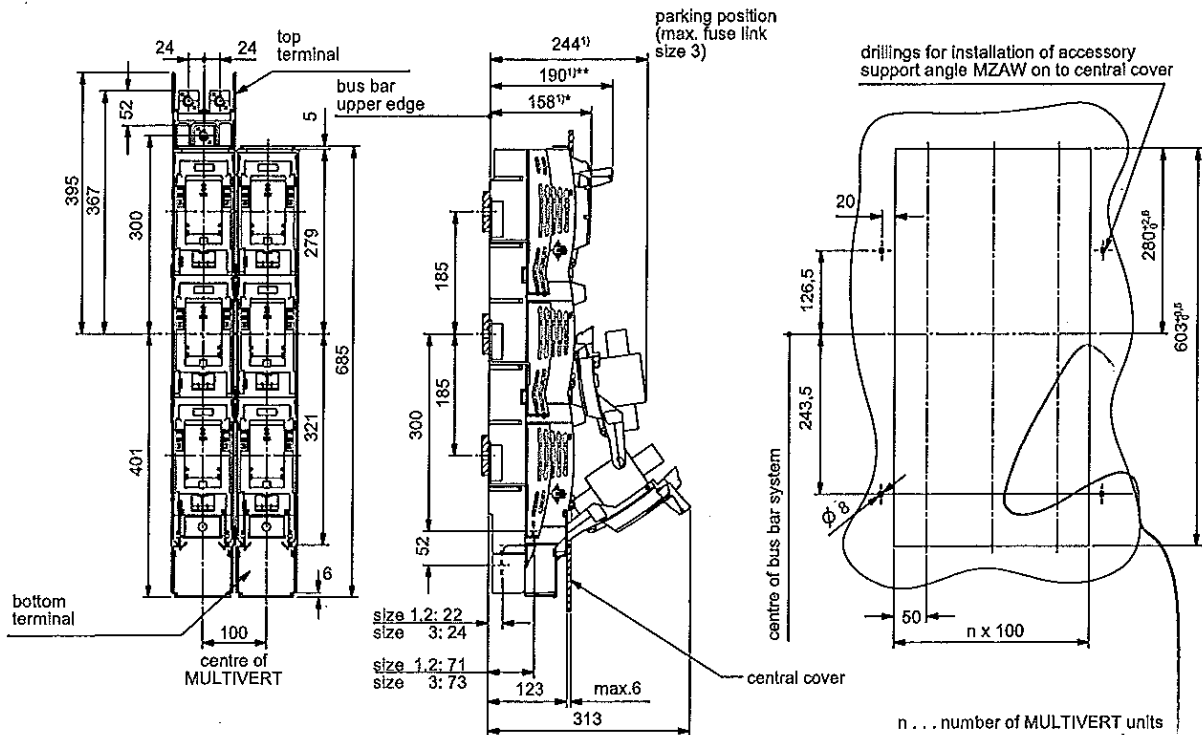
MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 3 x single pole switching
direct installation with screws on to 185mm bus bar system

(M01152b)



1) dimension from upper edge of bus bar

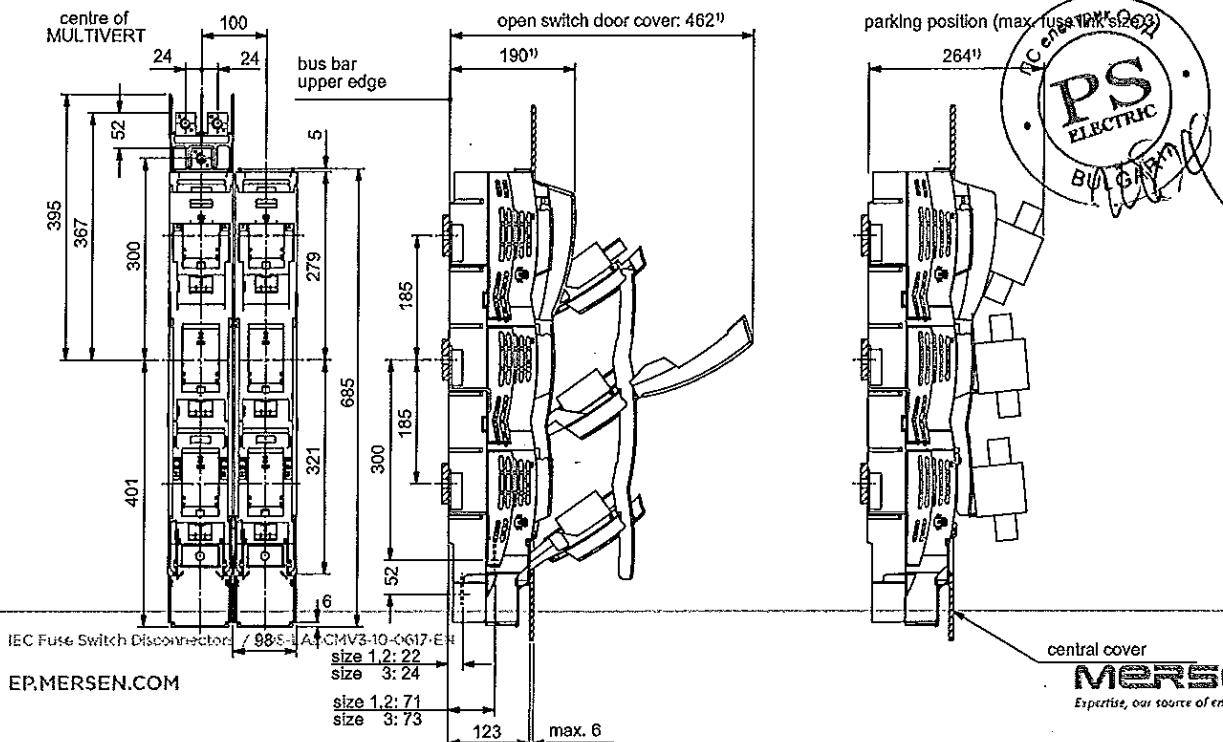
- * 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
- ** 190 mm handle in open position (fixed) = switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 1 x triple pole switching
direct installation with screws on to 185mm bus bar system

(M01153b)



EP.MERSEN.COM

MERSEN
Expertise, our source of energy

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

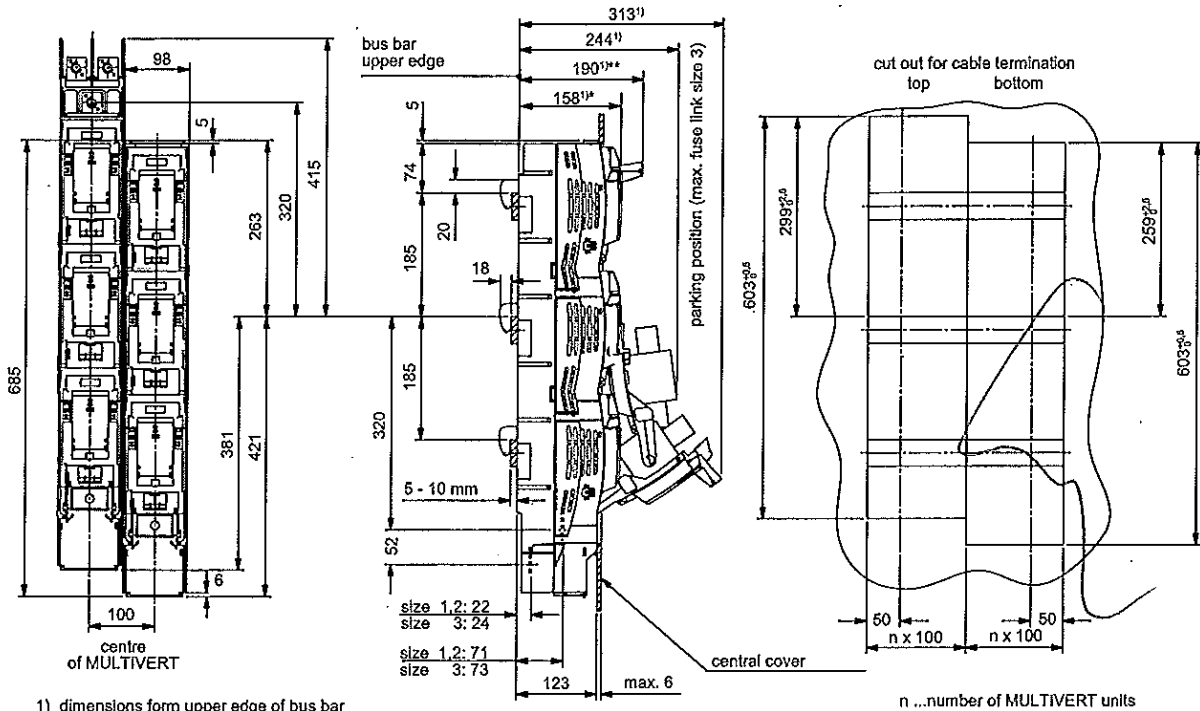
MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A NH-vertical fuse switch disconnecter, 3 x single pole switching
direct installation without drilling with hooked clamps on to 185mm bus bar system

(MOT164b)



1) dimensions form upper edge of bus bar

* 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
** 190 mm handle in open position (fixed) - switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



MERSEN reserves the right to change, update or correct, without notice, any info contained in this datasheet.

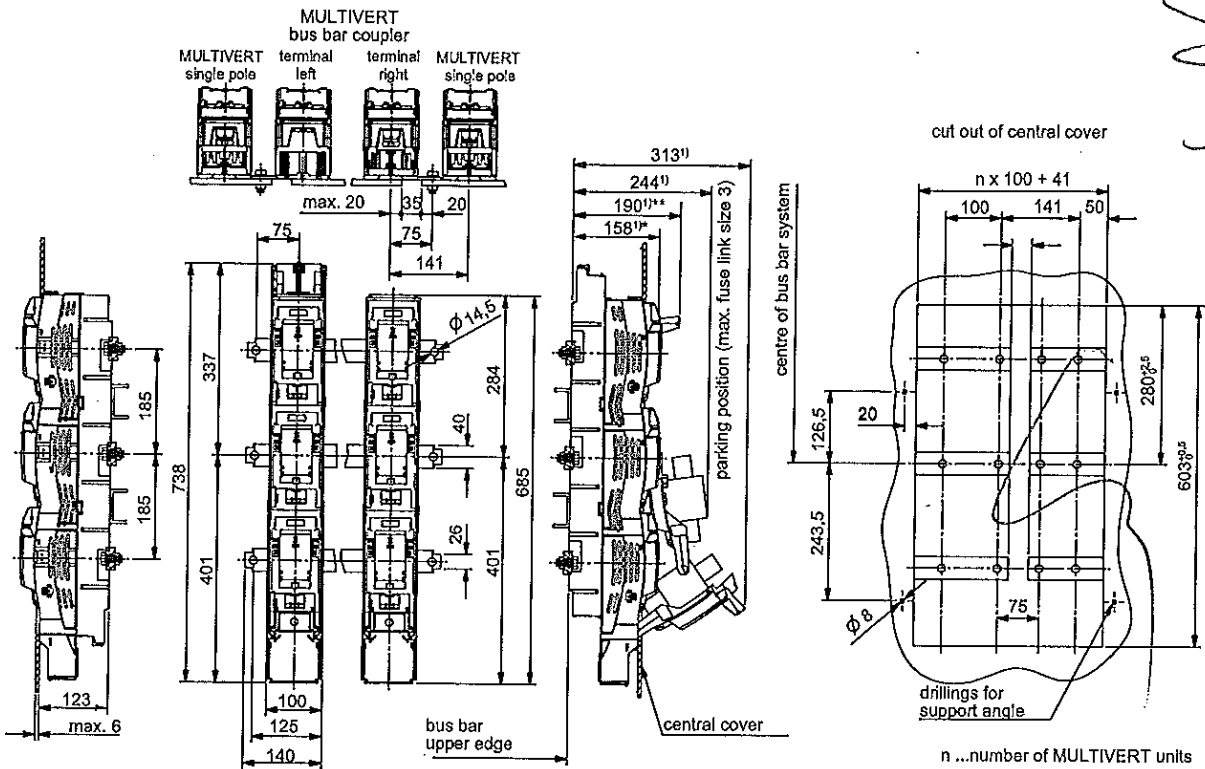
MULTIVERT® 630A

Size 3, 690VAC

DIMENSIONS

MULTIVERT® 250A, 400A, 630A bus bar coupler switch with lateral terminals
3 x single pole switching

(M01159a)

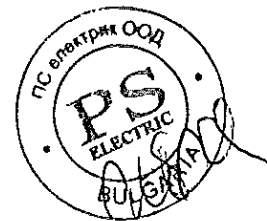


1) dimensions form upper edge of bus bar

- * 158 mm handle in closed position (folded) = total installation depth of MULTIVERT
- ** 190 mm handle in open position (fixed) - switching position

Dimensions in mm

ВЯРНО С
ОРИГИНАЛА



[Handwritten signature]

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

Долуподписаният, “ПС ЕЛЕКТРИК” ООД,

(име на производителя или неговия упълномощен представител, наименование на дружеството /фирмата производител или негов представител)

9700 гр. Шумен, бул. “Мадара” № 12,

(адрес)

декларирам на собствена отговорност, че продуктът

Предпазители със стопяема вложка ниско напрежение размер NH-2 250A , NH-2 400A , NH3-630A,
характеристика gG

(наименование и търговска марка, тип или модел, предназначение)

произведен от

Mersen France SB

(място на производство на разглеждания продукт)

за който се отнася тази декларация, е произведен в условията на въведена и поддържана от производителя система за производствен контрол и е в съответствие със следния(те) стандарт(и), Българско техническо одобрение (БТО) или друг(и) нормативен(ни) акт(актове):

- БДС EN 60269-1:2007 – „Стопяеми предпазители за ниско напрежение. Част 1: Общи изисквания (IEC 60269-1:2006)

- БДС EN 60269-2:2013 – „Стопяеми предпазители за ниско напрежение. Част 2: Допълнителни изисквания за стопяеми предпазители, предназначени за използване от квалифицирани лица (стопяеми предпазители предимно за промишлено приложение). (наименование и/или номер и дата на издаване на стандарта(тите), БТО или друг(и) нормативен(ни) акт (актове)

и е оценен положително по реда и условията на Наредбата за съществените изисквания и оценяване на съответствието на електрически съоръжения, предназначени за използване в определени граници на напрежението, приета с ПСМ №182 от 06.07.2001г., обн. ДВ, бр.62 от 13.07.2001г.

Продуктът отговаря на Техническата спецификация на стандарта за материал, вкл. на „Характеристика на материала“ и „Съответствие на предложеното изпълнение с нормативно-техническите документи.

Декларирам, че ми е известна отговорността, която нося съгласно чл. 313 от НК.

13.03.2018 год.

гр. Шумен

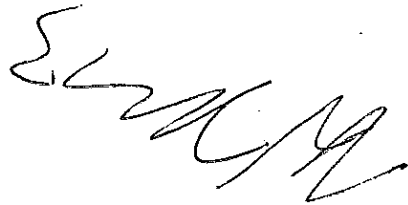
(място и дата на издаване)

Бождар Маринов

на основание чл. 2 от ЗЗЛД

(Фирма)

Производителя



ПАПКА 10

ПРИЛОЖЕНИЕ 10 Други документи за
Позиция 1 и Позиция 2

ПРИЛОЖЕНИЕ 10.5 Други

Приложение 1

Приложение 2

Приложение 3

Приложение 4

Приложение 5



1

МИНИСТЕРСТВО НА ВЪТРЕШНИТЕ РАБОТИ
ГЛАВНА ДИРЕКЦИЯ „ПОЖАРНА БЕЗОПАСНОСТ И ЗАЩИТА НА НАСЕЛЕНИЕТО“

„ОТДЕЛ „ЦЕНТЪР ЗА ИЗСЛЕДВАНИЯ И ЕКСПЕРТИЗИ“

1619 -София, ул. „Огнеборец“ №1, тел.: 857 03 26, 857 46 89, факс: 857 02 14

Рег. № 110-5214 Екз. №
..... 14.06. 2012 г.



КЛАСИФИКАЦИОНЕН ПРОТОКОЛ

№ 3/11.06.2012 г.

Класификация за реакция на огън

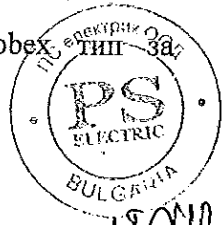


Заявител: „ПАВЕЛ И СИНОВЕ ЕЛЕКТРИК“ ООД, гр. Шумен 9700, област Шумен,
община Шумен, бул. „Мадара“, № 12
Писмо вх. № 12569/08.06.2012 г.

Подготвен от: ОТДЕЛ „ЦЕНТЪР ЗА ИЗСЛЕДВАНИЯ И ЕКСПЕРТИЗИ“, ГДПБЗН-МВР,
1619 София, ул. „Огнеборец“ № 1.

**ВЯРНО С
ОРИГИНАЛА**

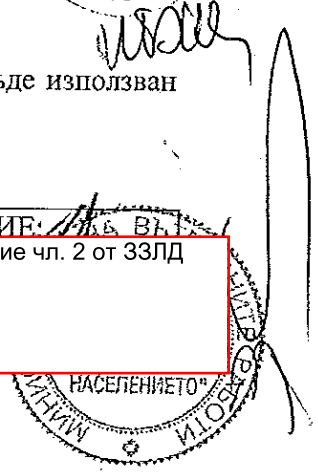
Име на продукта: Полиестер Menzolit SMC 0200, марка Incobex,
електрически табла ST, SST, STN, SSTN, KK и KKD.



Издание номер: 1

Този класификационен протокол съдържа 3 (три) страници и може да бъде използван
или издаден отново само в пълния си вид.

| | | |
|---|-------------|---|
| Класификационен протокол № 3/11.06.2012 г Екземпляр № 2 | Лист 1 от 3 | НАЧАЛНИК НА ОПИЕ: <u>Же. Вел.</u> КОМИСАР на основание чл. 2 от ЗЗЛД |
|---|-------------|---|



2. Детайли на класифицирания продукт

Полиестер Menzolit SMC 0200, марка Incobex тип за електрически табла ST, SST, STN, SSTN, KK и KKD. Състав: стъклонапълнен полиестер със съдържание на стъклени влакна 23%, производство на Incobex Sp.zoo, ul Grazynskiego 71, 43-300 Bielsko-Biala, Poland.

3. Протоколи от изпитванията и резултати от изпитванията в съответствие с класификацията.

3.1 Протоколи от изпитванията

| Име на лабораторията | Име на заявителя | Изпитване и дата | Метод на изпитване |
|---|--|---------------------------------------|--------------------|
| Изпитвателен център по "Пожарна и аварийна безопасност" | „ПАВЕЛ И СИНОВЕ ЕЛЕКТРИК” ООД, гр. Шумен | Протокол № ИЦ-62-122 23.12.2010 г. | БДС EN 60695-11-10 |

3.2 Резултати от изпитванията

| Метод и номер на изпитването | Параметър | Протокол № | Резултати | |
|------------------------------|-------------------------------------|-------------------------------|---------------------------------|----------------------------|
| | | | Постоянен параметър – означение | Съответствие с параметрите |
| БДС EN 60695-11-10 | t_1 и t_2 по-малко от 10 s; | № ИЦ-62-122/ 23.12.2010 г. | t_1 и $t_2 = 0$ s | Съответства |
| | t_f по-малко от 50 s; | | $t_f = 0$ s | Съответства |
| | $(t_2 + t_3)$ по-малко от 30 s; | | $(t_2 + t_3) = 0$ s | Съответства |
| | достигане до мястото на закрепване; | | не | Съответства |
| | запалване на памучния тампон. | | не | Съответства |

| | | | |
|--|-------------|------------------------------|-------------------------------|
| Класификационен протокол № 3/11.06.2012 г Екземпляр № 2 | Лист 2 от 3 | НАЧАЛНИК НА ОЦИЕ: КОМИСАР | /X на основание чл. 2 от ЗЗЛД |
|--|-------------|------------------------------|-------------------------------|

4 Класификация и област на приложение

4.1 Съответствие на класификацията:

Полиестер Menzolit SMC 0200, марка Incobex тип за електрически табла ST, SST, STN, SSTN, KK и KKD със състав: стъклонапълнен полиестер със съдържание на стъклени влакна 23%, производство на Incobex Sp.zoo, ul Grazynskiego 71, 43-300 Bielsko-Biala, Poland се класифицира в категория V-0, съгласно БДС EN 60895-11-10.

4.2 Класификация

Класификация за реакция на огън КАТЕГОРИЯ V-0

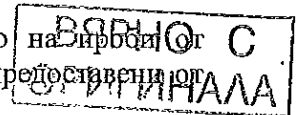
4.3 Област на приложение

Този класификация е валидна за полиестер Menzolit SMC 0200, марка Incobex тип за електрически табла ST, SST, STN, SSTN, KK и KKD със състав: стъклонапълнен полиестер със съдържание на стъклени влакна 23%, производство на Incobex Sp.zoo, ul Grazynskiego 71, 43-300 Bielsko-Biala, Poland

5. Ограничения

Този класификационен документ не представлява вид одобрение или сертификация на продукта.

Изпитвателната лаборатория обаче не взема участие при вземането на проби от изпитвания продукт, въпреки че притежава съответните препоръки, предоставени от производителя за осигуряване на проследимост на изпитваните проби.



на основание чл. 2 от ЗЗЛД

ИЗВЪРШИЛ
КЛАСИФИКАЦИЯ

/ инж. Е. Хлебарова/

НАЧАЛНИК НА ОЦИЕ:
КОМИСАР

на основание чл. 2 от ЗЗЛД

| | | | |
|--|-------------|------------------------------|----------------------------|
| Класификационен протокол № 3/11.06.2012 г Екземпляр № 2 | Лист 3 от 3 | НАЧАЛНИК НА ОЦИЕ: КОМИСАР | на основание чл. 2 от ЗЗЛД |
|--|-------------|------------------------------|----------------------------|

/ Хри



2

МИНИСТЕРСТВО НА ВЪТРЕШНИТЕ РАБОТИ
ГЛАВНА ДИРЕКЦИЯ "ПОЖАРНА БЕЗОПАСНОСТ И СПАСЯВАНЕ"
ИЗПИТВАТЕЛЕН ЦЕНТЪР ПО ПОЖАРНА И АВАРИЙНА БЕЗОПАСНОСТ
1619 -София, ул."Огнеборец" №1, тел.: 857 03 26, 857 46 89, факс: 857 02 14

Лист 1
Велиста 3

ПРОТОКОЛ
ОТ ИЗПИТВАНЕ

№ ИЦ-62-122/23.12.2010 г.



валиден до 28.02.2014 г.

1. МАТЕРИАЛИ КОНСТРУКТИВНИ И ЗА ВЪТРЕШНО ОБЗАВЕЖДАНЕ
/ПЛАСТМАСИ И ДРУГИ НЕМЕТАЛНИ МАТЕРИАЛИ/

Полнестер Menzolit SMC 0200, марка Incobex тип за електрически табла ST, SST, STN, SSTN, KK и KKD, с дебелина 8,5 mm. Състав: стъклонапълнен полнестер със съдържание на стъкленни влакна 23%. Производител на продукта е Incobex Sp.zoo. ul Grazynskiego 71, 43-300 Bielsko-Biala, Poland.

2. ЗАЯВИТЕЛ НА ИЗПИТВАНЕТО: фирма „ПАВЕЛ И СИНОВЕ ЕЛЕКТРИК“ ООД, гр. Шумен. Писмо вх. № ИЦ-62/09.11.2010 г.

ВЯРНО С
ОРИГИНАЛА

3. МЕТОД ЗА ИЗПИТВАНЕ И СПЕЦИФИЧНИ УСЛОВИЯ:

БДС EN 60695-11-10 "Изпитване на опасност от пожар. Част 11-10. Изпитвателни пламъци. Хоризонтален и вертикален метод за изпитване с пламък с мощност 50W".

Образците за изпитване са кондиционирани при $Rh=(50\pm 5)\%$ и температура $(23\pm 2)^\circ C$ за 48h.

4. ДАТА НА ПОЛУЧАВАНЕ НА ОБРАЗЦИТЕ ЗА ИЗПИТВАНЕ: 20.12.2010г.

5. КОЛИЧЕСТВО НА ИЗПИТВАНИТЕ ОБРАЗЦИ: 5 бр. от проба № ИЦ-62/2010 г. № 62-1 до № 62-5.

6. ДАТА НА ИЗВЪРШВАНЕ НА ИЗПИТВАНЕТО: 22.12.2010г.

на основание чл. 2 от ЗЗЛД

РЪКОВОДИТЕЛ НА ИЦ ПО ПА

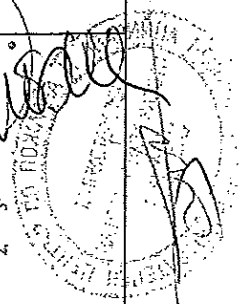
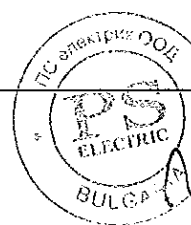
/инж. Б. Розанов/

7. РЕЗУЛТАТИ ОТ ИЗПИТВАНЕТО:

| № по ред | Наименование на показателя | Единица на величината | Стандарт/валидирани методи | № на образца по вх.-изх.дневник | Резултати от изпитването (стойност, неопределеност) | Стойност и допуск на показателя | Условия на изпитването | |
|----------|-------------------------------|-----------------------|----------------------------|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | |
| 1. | Категория на горимост | | | | | Категория V-0 съгласно БДС EN 60695-11-10 | Категория V-1 съгласно БДС EN 60695-11-10 | Категория V-2 съгласно БДС EN 60695-11-10 |
| | - Продължителност на пламъка; | | | ИЦ-62-1 ИЦ-62-2 ИЦ-62-3 ИЦ-62-4 ИЦ-62-5 | 0 0 0 0 0 | БДС EN 60695-11-10 т.9.4 $t_1 \leq 10$ | БДС EN 60695-11-10 т.9.4 $t_1 \leq 30$ | БДС EN 60695-11-10 т.9.4 $t_1 \leq 30$ |
| | - t_1 ; | | | ИЦ-62-1 ИЦ-62-2 ИЦ-62-3 ИЦ-62-4 ИЦ-62-5 | 0 0 0 0 0 | $t_1 \leq 10$ | $t_1 \leq 30$ | $t_1 \leq 30$ |
| | - t_2 ; | | БДС EN 60695-11-10 | ИЦ-62-1 ИЦ-62-2 ИЦ-62-3 ИЦ-62-4 ИЦ-62-5 | 0 0 0 0 0 | $t_2 \leq 10$ | $t_2 \leq 30$ | $t_2 \leq 30$ |
| | - t_1 ; | | | ИЦ-62-1 ИЦ-62-2 ИЦ-62-3 ИЦ-62-4 ИЦ-62-5 | 0 0 0 0 0 | $t_1 \leq 50$ | $t_1 \leq 50$ | $t_1 \leq 50$ |
| | - $t_2 + t_3$; | | | ИЦ-62-1 ИЦ-62-2 ИЦ-62-3 ИЦ-62-4 ИЦ-62-5 | 0 0 0 0 0 | $(t_2 + t_3) \leq 30$ | $(t_2 + t_3) \leq 60$ | $(t_2 + t_3) \leq 60$ |

$t^{\circ} = 23^{\circ}C \pm 0,1$
 $4^{\circ}C$
 $RH = 60,0\% \pm 1,3\%$

БЯРНО С
ОРИГИНАЛ



ФК 510-1

Лист 3
В-листа 3

| | | | | | | | |
|---|---|---|---------------------------|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | <p>- Достигане до мястото на закрепване; - Запалване на памучния тампон.</p> | - | <p>БДС EN 60695-11-10</p> | <p>ИЦ-62-1 ИЦ-62-2 ИЦ-62-3 ИЦ-62-4 ИЦ-62-5 ИЦ-62-1 ИЦ-62-2 ИЦ-62-3 ИЦ-62-4 ИЦ-62-5</p> | <p>не не не не не не не не не не</p> | <p>БДС EN 60695-11-10 т.9.4 не не БДС EN 60695-11-10 т.9.4 не не</p> | <p>БДС EN 60695-11-10 т.9.4 не не БДС EN 60695-11-10 т.9.4 да да</p> <p>$t^{\circ} = 25^{\circ}\text{C} \pm 0,1^{\circ}\text{C}$ 4°C $\text{RH} = 60,0\% \pm 1,3\%$</p> |

ЗАБЕЛЕЖКА I: Ако е необходимо, протоколът от изпитване може да включва мнения и интерпретации за определени изпитвания (заключения не се допускат) само в съответствие с изискванията на т. 5.10.5 от БДС EN ISO/IEC 17025:2006

ЗАБЕЛЕЖКА II: Резултатите от изпитването са валидни само за изпитваните образци. Извлечения от изпитвателния писмено съгласие на ИЦ по ПАБ:

ПРОВЕЛИ ИЗПИТВАНЕТО: 1.

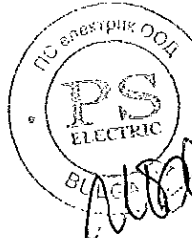
3/8

РЪКОВОДИТЕЛ НА ИЦ по ПАБ:

на основание чл. 2 от ЗЗЛД

на основание чл. 2 от ЗЗЛД

1. ...
2. ...
3. ...
4. ...



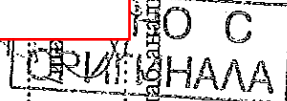
ФК 510-1

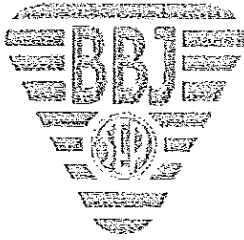
на основание чл. 2 от ЗЗЛД

РЪКОВОДИТЕЛ НА ИЦ по ПАБ:

ИЦ-62-11-10
с. Д. П. 10. 00000000

Лаборант Д. Дончева/





STOWARZYSZENIE ELEKTRYKÓW POLSKICH BIURO BADAWCZE DS. JAKOŚCI

04-703 Warszawa, ul. Mieczysława Pożaryskiego 28
tel.: +48 22 812 69 38; fax: +48 22 815 65 80; e-mail: bbj@bbj.pl

CERTYFIKAT ZGODNOŚCI CE CE CERTIFICATE OF CONFORMITY

nr CE/040/12
No. CE/040/12

Dostawca: INCOBEX Sp. z o.o.
(Nazwa i adres) ul. Grażyńskiego 71
Supplier: 43-300 Bielsko-Biała, Poland
(Name and address)

Producent: INCOBEX Sp. z o.o.
(Nazwa i adres) ul. Grażyńskiego 71
Manufacturer: 43-300 Bielsko-Biała, Poland
(Name and address)

Nazwa wyrobu: Obudowy do rozdzielnic niskiego napięcia z materiału
(Name of the product) izolacyjnego termoutwardzalnego.
Empty enclosures for low-voltage switchgear and controlgear
assemblies made of insulating thermohardening material.

Typ (model): STN., SSTN.,
(wykaz odmian na odwrocie)
(Type (model)) (list of variations on the back page)

Dane techniczne: Stopień ochrony: IP44; IK10
(Technical data) Degree of protection: IP44; IK10

Wymieniony powyżej wyrób spełnia wymagania norm(-y) zharmonizowanych(-e):
Aforesaid product complies with the requirements of the harmonized standard(s):

| Norma(-y) Standard(s) | Raport(-y) z badań nr Test report(s) No. | Wydany(-e) przez Issued by |
|-------------------------------------|---|-------------------------------|
| PN-EN 62208:2006 (EN 62208:2003) | LA-07.193/1, LA-07.193/2, LA-11.040/1, LA-11.040/2 | BBJ |

Spełnienie wymagań powyższych(-ej) norm(-y) daje domniemanie zgodności z zasadniczymi wymaganiami określonymi w:

- Compliance with the requirements of the aforesaid standard(s) gives presumption of conformity with the essential requirements specified in:
- Dyrektywę LVD 2006/95/WE (wdrożonej do prawa polskiego rozporządzeniem Ministra Gospodarki z 2007-08-21, Dz. U. nr 155, poz. 1089);
- LVD Directive 2006/95/EC (implemented into Polish law by MG decrea of 2007-08-21, OJ No. 155, item 1089);

stanowiąc niezbędny warunek dla oznakowania CE,
accomplishing mandatory terms of CE marking.

Niniejszy certyfikat dotyczy wyłącznie wyrobów mających identyczne właściwości (parametry) jak przedstawiony do badań wzór i spełniających wymagania ww. norm(-y).

This certificate covers only the products with characteristics same as of the tested sample and those complying with the requirements of the aforesaid standard(s).

Ponadto, znakowanie CE powinno być umieszczone na wyrobach po sporządzeniu niezbędnej dokumentacji technicznej oraz wystawieniu deklaracji zgodności WE, zgodnie z postanowieniami ww. dyrektyw(-y) (rozporządzenia/ustawy).

Moreover, CE marking shall be affixed on the products after technical documentation was prepared and EC declaration of conformity was issued, according to the aforesaid directive(s) (decree) regulations.

Niniejszy certyfikat traci ważność z datą ustania domniemanie zgodności ww. norm(-y) zharmonizowanych(-e) z zasadniczymi wymaganiami ww. dyrektyw(-y) (rozporządzenia/ustawy).

This certificate is valid until the date of cessation of presumption of conformity of the aforesaid harmonized standard(s) under the aforesaid directive(s) (decree/act).

ВЯРНО С
ОЗНАКОВАНА

Kierownik Jednostki Certyfikującej
Certification Body Manager

на основании чл. 2 от 33ЛД

Firma nagrodzona Złotą Odznaką Honorową SEP
Company granted with SEP Gold Honour Award

BBJ



Warszawa, 2012-10-01

Informacje dodatkowe:

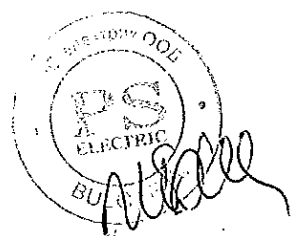
Additional information:

Wykaz odmian:

List of variations:

| | | | | | |
|------------------------------------|----------------|---------------|----------------|---------------|----------------|
| Obudowy: cabinets: | | | | | |
| STN 26x42 | SSTN 26x42 | STN 26x58 | SSTN 26x58 | STN 26x84 | SSTN 26x84 |
| STN 40x42 | SSTN 40x42 | STN 40x58 | SSTN 40x58 | STN 40x84 | SSTN 40x84 |
| STN 53x42 | SSTN 53x42 | STN 53x58 | SSTN 53x58 | STN 53x84 | SSTN 53x84 |
| STN 53x42/2 | SSTN 53x42/2 | STN 53x58/2 | SSTN 53x58/2 | STN 53x84/2 | SSTN 53x84/2 |
| STN 66x42 | SSTN 66x42 | STN 66x58 | SSTN 66x58 | STN 66x84 | SSTN 66x84 |
| STN 66x42/2L | SSTN 66x42/2L | STN 66x58/2L | SSTN 66x58/2L | STN 66x84/2L | SSTN 66x84/2L |
| STN 66x42/2P | SSTN 66x42/2P | STN 66x58/2P | SSTN 66x58/2P | STN 66x84/2P | SSTN 66x84/2P |
| STN 80x42 | SSTN 80x42 | STN 80x58 | SSTN 80x58 | STN 80x84 | SSTN 80x84 |
| STN 80x42/2 | SSTN 80x42/2 | STN 80x58/2 | SSTN 80x58/2 | STN 80x84/2 | SSTN 80x84/2 |
| STN 80x42/2L | SSTN 80x42/2L | STN 80x58/2L | SSTN 80x58/2L | STN 80x84/2L | SSTN 80x84/2L |
| STN 80x42/2P | SSTN 80x42/2P | STN 80x58/2P | SSTN 80x58/2P | STN 80x84/2P | SSTN 80x84/2P |
| STN 80x42/3 | SSTN 80x42/3 | STN 80x58/3 | SSTN 80x58/3 | STN 80x84/3 | SSTN 80x84/3 |
| STN 106x58 | SSTN 106x58 | STN 106x84 | SSTN 106x84 | STN 106x58/2 | SSTN 106x58/2 |
| STN 106x84/2 | SSTN 106x84/2 | STN 106x58/3L | SSTN 106x58/3L | STN 106x58/3P | SSTN 106x58/3P |
| STN 106x84/3L | SSTN 106x84/3L | STN 106x84/3P | SSTN 106x84/3P | STN 106x58/4 | SSTN 106x58/4 |
| STN 106x84/4 | SSTN 106x84/4 | STN 40x84/2 | SSTN 40x84/2 | | |
| Fundamenty: pedestals: | | | | | |
| FTN 26 | FTN 40 | FTN 53 | FTN 66 | FTN 80 | FTN 106 |
| Kieszonki kablowe: cable bases: | | | | | |
| KKN 26 | KKN 40 | KKN 53 | KKN 66 | KKN 80 | KKN 106 |
| KKDN 26 | KKDN 40 | KKDN 53 | KKDN 66 | KKDN 80 | KKDN 106 |

ВЯРНО С
ОРИГИНАЛА



CW-TA 12.318
 Nr rej. S-A-12-037
 Reg. No. S-A-12-037

Rozdzielnik:
 Copy to:

1. INCÓBEX Sp. z o.o.,
 ul. Grażyńskiego 71
 43-300 Bielsko-Biała, Poland
2. CW



Since 1933 r.

ASSOCIATION OF POLISH ELECTRICIANS
QUALITY TESTING OFFICE
ul. M. Pożaryskiego 28, 04-703 Warszawa, Poland

tel./fax: +48 22 815 65 80

TESTING LABORATORY



AB 044



TEST REPORT
EN 60695-11-10

Title of the Standard: Fire hazard testing
Part 11-10: Test flames - 50 W horizontal and vertical flame test methods

Report reference No.....: LA-12.088/1/E

Date of issue: 2012-09-28

Total number of page: 9 pages

Tested by (name + function + signature): Zbigniew Ostrowski
Senior Specialist

Authorizing by (name + function + signature): Dariusz Szczepanowski
Manager of LA Laboratory

Testing application number: N-A-12-8163

Test items reference: N-A-12-8163

Scope of test: - type test - partial test

Test specification:

Standard/procedure: EN 60695-11-10:1999+A1:2003,
 IEC 60695-11-10: 1999+A1:2003 Ed. 1

Non-standard test methods: N/A

Non-accredited test method: N/A

Applicant's name: INCOBEX sp. z o.o.

Address: 43-300 Bielsko-Biała,
ul. Grażyńskiego 71.

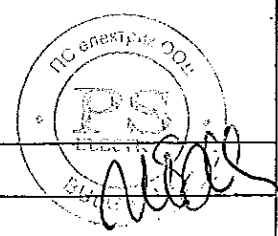
Test item description: The sample of isolating material

Trade Mark: **INCOBEX**

Manufacturer: INCOBEX sp. z o.o.
43-300 Bielsko-Biała,
ul. Grażyńskiego 71.

Model/Typ reference: Thermosetting material, glass-fiber reinforced polyester (SMC 190).

ВЯРНО С
ОРИГИНАЛА





Ratings: V-0 category of flammability or determination of other

List of Attachments:

| Attachment | Name of Attachments | Page number |
|------------|-----------------------------|-------------|
| No. 1 | Summary of testing | 1 |
| No. 2 | List of test equipment used | 1 |
| No. 3 | The photos | 1 |

Summary of testing:

| | |
|--|--|
| Testing performed (in the case of partial tests): --- | Testing location:/address (if different from page 1) Zakład Aparatów Niskiego Napięcia 20-150 Lublin, ul. M. Rapackiego 13, POLAND |
| Number of tests with F (Fail) verdict | 0 |
| Summary conformity/non-conformity with standardization document (if apply) | N/A |
| Summary of compliance with National Differences (if apply): --- | N/A |
| Opinions and interpretation, if needed: | N/A |
| Other additional information (as requested by the applicant): --- | N/A |

Copy of marking plate: ---

Test item particulars:
20 bar test specimens cut by milling method from one sample No. 1 of material SMC 190 supplied for the test. Selected bar test specimens were marked as samples 1/A1 to 1/A10 and 1/B1 to 1/B10 to carry out the test.

| | |
|---------------------------------------|------------|
| Date(s) of receipt of test item | 2012-09-21 |
| Date(s) of performance of tests | 2012-09-28 |

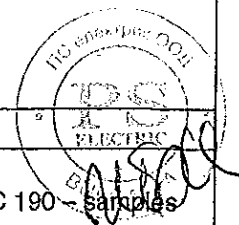
Possible test case verdicts:

| | |
|---|---------|
| Test case does not apply to the test object | N/A |
| Test item does meet the requirement | P(Pass) |
| Test item does not meet the requirement | F(Fail) |

Test report general remarks:

- The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.
- "(See Enclosure #)" refers to additional information appended to the report.
- "(See appended table)" refers to a table appended to the report.
- Throughout this report a comma is used as the decimal separator.
- Test Report Form is based on TRF No.: N/A

ОРИГИНАЛ



Production place(s): N/A

General product information:
The samples of thermosetting isolating material made of glass-fiber reinforced polyester (SMC 190 - samples No.1).



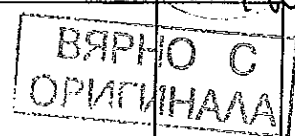
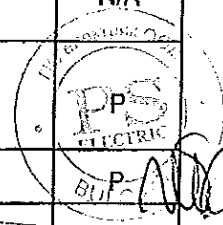
| IEC/EN 60695-11-10 | | | |
|--------------------|---|--|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | MARKING | | P |
| 7 | Specimens | | P |
| 7.1 | Test specimens shall be cut from a representative sample of the moulded material taken from a product; | Test specimens cut from a representative sample of the moulded material taken from a product | P |
| | Or the specimens shall be produced using the same fabrication process as would be used to mould a part of a product | | N/A |
| | Or using the appropriate ISO method | | N/A |
| | If above methods are not possible perform the needle flame test in accordance with IEC 60695-2-2 | | N/A |
| | After any cutting operation, all dust and any particles shall be taken from surface. | | P |
| | Cut edges shall be fine sanded to a smooth finish | | P |
| 7.2 | Material testing | | P |
| | Specimens of different colors, thicknesses, densities, molecular masses, anisotropy directions, or different addition, fillers | Homogeneous samples | P |
| | Testing the specimens of different density, fillers content are representative, | | N/A |
| | When the flame test classification are different estimation is limited to the tested materials | | N/A |
| | Specimens not dyed and specimens with maximum pigment content are to be representative, when test results give the same flame test classification | | N/A |
| | If some pigments influence flame burning characteristic the specimens with this pigments shall be tested | | N/A |
| | There shall be tested specimens: | | N/A |
| | a) Without dyeing means | | N/A |
| | b) With maximum organic pigments | | N/A |
| | c) With maximum inorganic pigments | | N/A |
| | d) With pigments influencing flame burning characteristic | | N/A |
| 7.3 | Bar-shaped specimen | | P |
| | Bar-shaped specimens shall be: | Bar-shaped specimens | P |
| | 125 mm ± 5 mm long | 125 mm | P |
| | 13 mm ± 5 mm wide | 13 mm | P |

I-POB-07/01_Z3w9



IEC/EN 60695-11-10

| Clause | Requirement + Test | Result - Remark | Verdict |
|--------|---|-----------------------|---------|
| | Provided with the minimum normally supplied thickness | | P |
| | Edges shall to be smooth, and the radius of the corners shall not exceed 1,3 mm. | | P |
| | Other thickness may be used by agreement between interested parties and noticed in test report | | N/A |
| | Minimum 6 specimens shall be prepared for A method test | | N/A |
| | Minimum 20 specimens for method B | 20 specimens | P |
| 8 | Method A – horizontal burning test | | N/A |
| | This clause is not involved in the scope of testing | | |
| 9 | Method B – vertical burning test | | P |
| 9.1 | Conditioning | | P |
| | Unless otherwise required by relevant specification, following requirements apply | | P |
| 9.1.1 | Sets of five bar test specimens shall be conditioned for minimum 48 hours at 23 °C ± 2 °C and 50 % ± 5 % | 23 °C; 55 % RH; 48 h | P |
| | Once removed from conditioning chamber specimens shall be tested within no longer than 1 h | No longer than 1 h | P |
| 9.1.2 | Sets of five bar test specimens shall be aged in the air-circulated oven for 168 h ± 2 h at 70 °C ± 2 °C and then cooled in the desiccator chamber for at least 4 hour | 70 °C; 168 h | P |
| | Once removed from desiccator chamber specimens shall be tested within no longer than 30 min | No longer than 30 min | P |
| 9.1.3 | Alternatively for aged method given in 9.1.2 industrial laminates may be conditioned for 24 h in temperature 125 °C ± 2 °C | | N/A |
| 9.1.4 | All the test specimens shall tested in a laboratory atmosphere of 15 °C to 35 °C and 45 % to 75 % relative humidity | 23 °C; 55 % RH | |
| 9.2 | Procedure | | |
| 9.2.1 | Clamp the bar test specimen using the upper 6 mm of its length with longitudinal axis vertical so that the lower end of the bar test specimen is 300 mm ± 10 mm above a horizontal layer of cotton which is approximately 50 mm x 50 mm x 6 mm uncompressed and has a maximum mass of 0,08 g (see figure 3) | | P |





IEC/EN 60695-11-10

| Clause | Requirement + Test | Result - Remark | Verdict |
|--------|--|---|---------|
| 9.2.2 | With the central axis of the burner tube vertical, burner placed remote from the bar test specimen and set the burner to produce a standardized 50 W nominal test flame, conforming to IEC 60695-11-4, flames A, B or C. | | P |
| | Wait for a minimum of 5 min. to allow the burner conditions to reach equilibrium | 5 minutes | P |
| | In case a dispute flame A shall be used as the reference test flame. | Flame: A has been used | P |
| 9.2.3 | Emplacement of bar test specimen and the burner shall be as in figure 6 | | P |
| 9.2.4 | Keeping the central axis of the burner tube vertically, apply the flame of the burner centrally to the lower front of the bar test specimen, so that the end of the burner tube is 10 mm ± 1 mm below that point. | Distance between the lower front of the bar test specimen and the end of the burner tube: 10 mm | P |
| | Apply the flame for 5 s ± 0,5 s. If the bar test specimens shrinks or elongates during the test, adjust the burner position vertically. | The flame applied for 5 s | P |
| | If, when applying the flame, the bar test specimens drips particles, shrinks or elongates during the test, to avoid dropping into the tube, position the burner tube at angle 45° and carefully remove it, keeping 10 mm ± 1 mm distance between nozzle center and the specimen. | Elongation and position changes of the specimen was not noticed | N/A |
| | Immediately after 10 s ± 0,5 s flame facing the specimen withdraw the burner sufficiently so that there is no effect on bar test specimen and begin the measurement of time t ₁ | Time of flame facing the specimen: 10 s | P |
| | Read and record time t ₁: | See appended Table 9 | P |
| | NOTE: Withdrawing the burner a distance of 150 mm from the bar test specimen following flame application has been found satisfactory | | P |
| 9.2.5 | Once the flame on the specimen extinguishes, face the test burner flame to the bar test specimen for 10 s ± 5 s keeping the central axis of burner tube vertically in a distance of 10 mm ± 1 mm below lower part of specimen | 10 s, 10 mm | P |
| | If necessary, move burner to avoid from dripping particles into burner tube as in 9.2.3 | | N/A |
| | Immediately after second facing flame to the specimen for 10 s ± 5 s extinguish the burner or withdraw the burner from the bar test specimen for satisfactory distance and start: | The burner was withdrawn for distance of 150 mm | P |
| | - measure afterflame time t ₂ | | P |

I-POB-07/01_Z3w9



| IEC/EN 60695-11-10 | | | |
|--------------------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | - and afterglow time t_3 | | N/A |
| | Read and record values: t_2 , t_3 and $t_2 + t_3$ | See appended Table 9 | P |
| | Note and record whether any flaming particles or drops fall from bar test specimen | | N/A |
| | And, if so, whether they ignite the cotton | | N/A |
| | NOTE1: Measuring and recording the afterflame time t_2 , and then continuing the measurement of the sum of the afterflame time t_2 and afterglow t_3 time, specifically t_2 plus t_3 (without resetting the time device) has been found satisfactory in the recording of t_3 | | P |
| | NOTE 2: Withdrawing the burner a distance of 150 mm from the bar test specimen while measuring t_2 and t_3 has been found satisfactory | | P |
| 9.2.6. | Repeat the procedure until five bar test specimens conditioned in accordance with 9.1.1 has been tested | | P |
| | And five bar test specimens conditioned in accordance with 9.1.2 has been tested as well | | P |
| 9.2.7 | If only one test specimen from a set of five specimens for a given conditioning treatment does not conform to all the criteria for a category, another set of five bar test specimens, subjected to the same conditioning, shall be tested | Repeated the procedure until five test specimens conditioned in accordance with 9.1.2 were tested | P |
| | To measure the total time t_f [s] additional set of five test specimens shall be tested if the total times for category: | | |
| | V-0 are in a range from 51 s to 55 s | See appended Table 9 | P |
| | or for category V-1 and V-2 form 251 s to 255 s | | N/A |
| | All specimens from the second set shall conform to all the criteria for a category | | N/A |
| 9.2.8 | Some materials, due to its thickness, may during testing get deformed, shrinks or burning up to clamps. These materials may be tested according to ISO 9773, under condition that there is a possibility of shaping the specimen | | N/A |
| 9.3 | Counting the results | | |
| | For each set of five test bar specimen taken from both ways of conditioning, the total time t_f , in seconds, shall be counted from equation | | |
| | $t_f = \sum_{i=1}^5 (t_{1,i} + t_{2,i})$ where | | P |
| | t_f – total time of flaming of five specimens set | | P |

I-POB-07/01_Z3w9



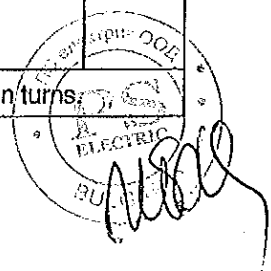
| IEC/EN 60695-11-10 | | | |
|--------------------|--|---|---------|
| Clause | Requirement + Test | Result - Remark | Verdict |
| | $t_{1,i}$ – first time of flaming, in seconds, of i-numbered specimen | | P |
| | $t_{2,i}$ – second time of flaming, in seconds, of i-numbered specimen | | P |
| 9.4 | Classification | | P |
| | Material shall be classified as V-0, V-1 or V-2 (V-vertical burning), according to criteria given in table 1, based on specimen behavior | | P |
| 9.5 | Test report | | P |
| | The test report shall include the following particulars: | | P |
| | a) a reference to this international standard | EN 60695-11-10 | P |
| | b) all details necessary to identify the product tested, including the manufacturer's name, number or code, and color | | P |
| | c) the thickness, to the nearest 0,1 mm, of the test specimen, | See appended Table 9 | P |
| | d) the nominal apparent density (cellular materials only) | | N/A |
| | e) the direction of any anisotropy relative to the dimensions of the test specimen | | N/A |
| | f) the conditioning treatment | Climatic chamber | P |
| | g) any treatment before testing, other than cutting, trimming and conditioning | The specimens has been cut by milling method. Specimen sanded using P180, P600 and P2000 sandpaper in turns | P |
| | h) the individual values of afterflame time t_1 , t_2 and afterglow time t_3 , and $t_2 + t_3$ | See appended Table 9 | P |
| | i) total flaming time t_f for each set of five specimens from two ways of conditioning (see 9.1.1 and 9.1.2) | See appended Table 9 | P |
| | j) a note as to whether any particles or drops fell from the bar test specimen and whether they ignited the cotton | | N/A |
| | k) a note as to whether any specimen showed burning up to clamp | | N/A |
| | l) the assigned classification acc. 9.4 | V-0 after conditioning the specimens acc. cl.9.1.1 and cl.9.1.2 | P |

I-POB-07/01_Z3w9



| IEC/EN 60695-11-10 | | | | | | | | | |
|--------------------|---|--------------------|-----------|--|---|--|--|--------|-------------------|
| Clause | Requirement + Test | | | | Result - Remark | | | | Verdict |
| 9 | TABLE Method B – Vertical burning test | | | | | | | | P |
| | Declared category of flammability: V-0 or other determined | | | | | | | | P |
| | Environment of conditioning the specimens acc. cl. 9.1.1 of standard EN 60695-11-10:1999+A1:2003. | | | | 23 °C, 55 %, 72 h | | | | |
| | Environmental condition | | | | 23 °C, 55 % RH | | | | |
| | Nominal power of the flame | | | | 50 W | | | | |
| | Test flame; height of the flame | | | | A; 20 mm | | | | |
| | Time of flame facing | | | | 10 s | | | | |
| Number of specimen | Thick-ness | Measured time in s | | | Criteria | | | | Category |
| | | $t_{1,1}$ | $t_{2,1}$ | $t_f = \sum_{j=1}^n (t_{1,j} + t_{2,j})$ | Single specimen afterflame time ($t_{1,1}$ & $t_{2,1}$) | Afterflame time and afterglow time of single specimen after second flame facing the specimen ($t_{1,1}$ & $t_{2,1}$) | Did the burning or glowing broaden up to the clamps? | f | |
| | mm | s | s | s | s | s | Yes/No | s | |
| 1/A1 | 3,47 | 0,0 | 2,0 | 7,5 | ≤ 10 s | ≤ 30 s | No | ≤ 50 s | V-0 ¹⁾ |
| 1/A2 | 3,30 | 0,0 | 1,5 | | | | | | |
| 1/A3 | 3,60 | 0,0 | 1,2 | | | | | | |
| 1/A4 | 3,28 | 0,0 | 1,1 | | | | | | |
| 1/A5 | 3,26 | 0,0 | 1,7 | | | | | | |

Note: 1) cut surfaces of bar test specimen sanded using P180, P600 and P2000 sandpaper in turns.



БЯРНО С
ОРИГИНАЛА



IEC/EN 60695-11-10

| Clause | Requirement + Test | Result - Remark | Verdict |
|--------|--------------------|-----------------|---------|
|--------|--------------------|-----------------|---------|

| Number of specimen | Thickness mm | Measured time in s | | | Criteria | | | Category |
|--------------------|-----------------|--------------------|-----------|--|---|--|--|----------|
| | | $t_{1,i}$ | $t_{2,i}$ | $t_{f,i} = \sum_{j=1}^n (t_{1,j} + t_{2,j})$ | Single specimen afterflame time ($t_{1,i}$ & $t_{2,i}$) | Afterflame time and afterglow time of single specimen after second flame facing the specimen ($t_{2,i}$ & $t_{3,i}$) | Did the burning or glowing broaden up to the clamps? | |
| | | s | s | s | s | s | Yes/No | s |
| 1/B1 | 3,39 | 1,0 | 0,0 | 7,0 | ≤ 10 s | ≤ 30 s | No | ≤ 50 s |
| 1/B2 | 3,49 | 1,0 | 1,0 | | | | | |
| 1/B3 | 3,46 | 0,0 | 2,5 | | | | | |
| 1/B4 | 3,23 | 1,0 | 0,0 | | | | | |
| 1/B5 | 3,51 | 0,5 | 0,0 | | | | | |

Note: 1) cut surfaces of bar test specimen sanded using P180, P600 and P2000 sandpaper in turns.

ВЯРНО С
ОРИГИНАЛА

menzolit



Firma / company: INCOBEX Sp.z.o.o

Fax / facsimile: 0048 338227063

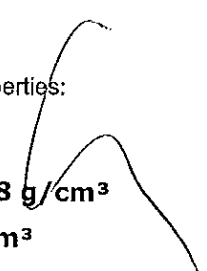
Datum / date: 28.07.2013

Betr. /Subj.: Menzolit SMC 0200 3311- Color index 735

Confirmation for SMC Menzolit

Menzolit confirmed that SMC contains the following material properties:

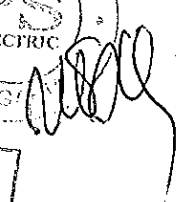
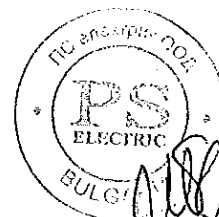
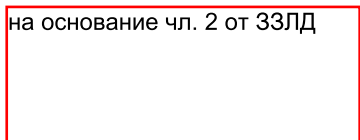
- the length of the glass fibers = 25 mm
- the density of the glass fibers = 2,45 - 2,58 g/cm³
- the density of the material SMC = 1,8 g/cm³



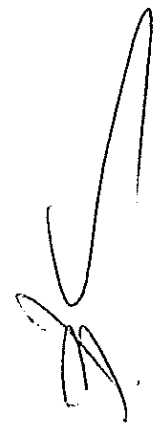
Person:

Jiri Rysanek
Handelsvertretung Menzolit, s.r.l

на основание чл. 2 от ЗЗЛД



ВЯРНО С
ОРИГИНАЛА



5



PS ELECTRIC LTD.
12, Madara Blvd., 9700 Shumen, Bulgaria

Bureau Veritas Certification Holding SAS – UK Branch certify that the Management System of the above organization has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 9001:2008

Scope of certification

Design, manufacturing, supply and service of complete transformer substation and switching devices (switching boards).

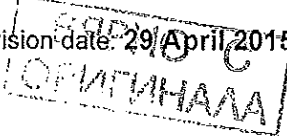
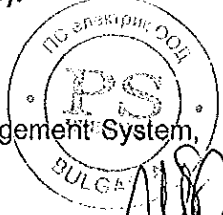
Certification cycle start date: **01 May 2015**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **01 May 2018**

Original certification date: **02 May 2006**

Certificate No: **BG120487Q**

Version 1, Revision date: **29 April 2015**



на основание чл. 2 от ЗЗЛД

Signed on behalf of BVCH SAS UK Branch

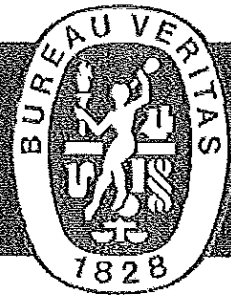
Certification body address: 5th Floor, 66 Prescott Street, London, E1 8HG, United Kingdom
Local Office: 81A, Bulgaria Blvd., 1404 Sofia, Bulgaria

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organization.
To check this certificate validity please call: +359 (2) 983 60 44



008

BUREAU VERITAS
Certification



ПС ЕЛЕКТРИК ООД

бул. Мадара 12, 9700 Шумен, България

*Bureau Veritas Certification Holding SAS – UK Branch удостоверява,
че системата за управление на горепосочената организация е оценена
и е установено нейното съответствие с изискванията
на стандарта за управление, указан по-долу*

ISO 9001:2008

Обхват на сертификация

**Проектиране, изработка, доставка и поддръжка на комплексни
трансформаторни подстанции и комутационни устройства
(комутационни табла).**

Начало на сертификационния цикъл: **01 Май 2015**

При постоянно поддържане на системата за управление, този сертификат е **валиден**
до: **01 Май 2018**

Първоначална дата на сертификация: **02 Май 2006**

Сертификат №: **BG120487Q**

Версия 1, Дата на ревизия: **29 Април 2015**

на основание чл. 2 от ЗЗЛД

Signed on behalf of BVCH SAS UK Branch

Certification body address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom
Local Office: 81A, Bulgaria Blvd., 1404 Sofia, Bulgaria

Информация за обхвата на сертификата и приложението на изискванията
на системата за управление могат да бъдат получени от организацията.
За валидността на настоящия сертификат моля обадете се на: +359 (2) 983 60 44



008

