



FUSE-SWITCH-DISCONNECTOR 3-POLE, NH1,  
250A 60MM BUSBAR SYSTEM COVERS FOR RITTAL BOX  
TERMINAL FUSE MONITORING ELECTROMECHANICAL

Similar to image

## General technical details:

|                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| Number of poles                                        | 3                                                      |
| product brand name                                     | SENTRON                                                |
| Product designation                                    | Fuse switch disconnecter                               |
| Fuse system                                            | LV HRC fuse                                            |
| Installation size of fuse-link                         | NH0, NH1                                               |
| Installation size of disconnecting link                | 1 and 0                                                |
| Type from device                                       | Zum Aufschnappen auf Sammelschienensystem Rittal 60 mm |
| Design of the product                                  | 3-pole                                                 |
| Busbar design                                          | Sammelschienenendicke 5 oder 10 mm                     |
| Design of the operating mechanism                      | handle unit                                            |
| Type of the driving mechanism / motor drive            | No                                                     |
| Design of the safety monitoring                        | elektromechanisch                                      |
| Number of NC contacts / for auxiliary contacts         | 0                                                      |
| Number of NO contacts / for auxiliary contacts         | 0                                                      |
| Number of changeover contacts / for auxiliary contacts | 0                                                      |
| Design of the load switch / Strip form                 | No                                                     |
| Product equipment / interlock                          | Yes                                                    |

|                                             |   |     |
|---------------------------------------------|---|-----|
| <b>Product feature / sealable</b>           |   | Yes |
| <b>Product component</b>                    |   |     |
| • phase failure monitoring                  |   | No  |
| • undervoltage release mechanism            |   | No  |
| • undervoltage release with leading contact |   | No  |
| • trip indicator                            |   | Yes |
| <b>Acceptability for application</b>        |   |     |
| • switch disconnecter                       |   | Yes |
| • emergency stop switch                     |   | No  |
| • main switch                               |   | No  |
| • safety cut-out switch                     |   | Yes |
| • maintenance/repair switch                 |   | Yes |
| <b>Product function</b>                     |   |     |
| • fuse monitoring                           |   | Yes |
| • overvoltage protection monitoring         |   | No  |
| <b>Product extension</b>                    |   |     |
| • auxiliary switch                          |   | Yes |
| • optional                                  |   |     |
| • phase failure monitoring                  |   | Yes |
| • voltage trigger                           |   | No  |
| • overvoltage protection monitoring         |   | Yes |
| • locking capability                        |   | Yes |
| • motor drive                               |   | No  |
| <b>Continuous current</b>                   |   |     |
| • rated value                               | A | 250 |
| • at 35 °C / rated value                    | A | 250 |
| • at 40 °C / rated value                    | A | 245 |
| • at 45 °C / rated value                    | A | 240 |
| • at 50 °C / rated value                    | A | 233 |
| • at 55 °C / rated value                    | A | 233 |
| <b>Operating current</b>                    |   |     |
| • at AC-21 B                                |   |     |
| • at 400 V / rated value                    | A | 250 |
| • at 500 V / rated value                    | A | 250 |
| • at 690 V / rated value                    | A | 250 |
| • at AC-22 B                                |   |     |
| • at 400 V / rated value                    | A | 250 |
| • at 500 V / rated value                    | A | 250 |
| • at 690 V / rated value                    | A | 250 |
| • at AC-23 B                                |   |     |

|                                                                        |                    |            |
|------------------------------------------------------------------------|--------------------|------------|
| • at 400 V / rated value                                               | A                  | 250        |
| • at 500 V / rated value                                               | A                  | 200        |
| • at 690 V / rated value                                               | A                  | 100        |
| • at DC-21 B                                                           |                    |            |
| • at 240 V / rated value / maximum                                     | A                  | 250        |
| • at 440 V / rated value / maximum                                     | A                  | 250        |
| • at DC-22 B                                                           |                    |            |
| • at 240 V / rated value / maximum                                     | A                  | 250        |
| • at 440 V / rated value / maximum                                     | A                  | 200        |
| • at DC-23 B                                                           |                    |            |
| • at 240 V / rated value / maximum                                     | A                  | 200        |
| • at 440 V / rated value / maximum                                     | A                  | 100        |
| • with capacitive load                                                 |                    |            |
| • at 400 V / maximum                                                   | A                  | 72         |
| • at 500 V / maximum                                                   | A                  | 55         |
| <b>Let-through current</b>                                             |                    |            |
| • with speedy activation / maximum permissible                         | kA                 | 25         |
| • with closed switch / maximum permissible                             | kA                 | 32         |
| <b>Conditional short-circuit current (I<sub>q</sub>)</b>               |                    |            |
| • rated value                                                          | kA                 | 80         |
| • at 500 V / with AC / with speedy activation / rated value            | kA                 | 80         |
| • at 690 V / with AC / with speedy activation / rated value            | kA                 | 50         |
| • with closed switch                                                   |                    |            |
| • at 500 V / with AC / rated value                                     | kA                 | 120        |
| • at 690 V / with AC / rated value                                     | kA                 | 100        |
| <b>Operating voltage / for DC / rated value</b>                        | V                  | 250        |
| <b>Tension d'emploi</b>                                                |                    |            |
| • for AC / rated value                                                 | V                  | 24 ... 690 |
| • for DC / rated value                                                 | V                  | 24         |
| • maximum                                                              | V                  | 250        |
| <b>Power factor</b>                                                    |                    |            |
| • at AC-21 B                                                           |                    | 0.95       |
| • at AC-22 B                                                           |                    | 0.65       |
| • at AC-23 B                                                           |                    | 0.45       |
| • with capacitive load                                                 |                    | -0.25      |
| <b>Active power loss / maximum</b>                                     | W                  | 23         |
| <b>Insulation voltage / rated value</b>                                | V                  | 690        |
| <b>Impulse voltage resistance / rated value</b>                        | kV                 | 8          |
| <b>I<sup>2</sup>t value / with closed switch / maximum permissible</b> | kA <sup>2</sup> ·s | 780        |
| <b>Item designation</b>                                                |                    |            |

- according to DIN EN 61346-2
- according to DIN EN 81346-2

Q  
Q

#### Connection elements and terminals:

##### Design of the electrical connection / for main current circuit

box terminals

##### Conductor cross section that can be connected / for main contacts

- single- or multi-stranded
- stranded

mm<sup>2</sup>

70 ... 185

mm<sup>2</sup>

70 ... 185

##### Type of connectable conductor cross-sections / of laminated conductors

- maximum

10 x 20 mm

##### Tightening torque

- with screw-type terminals

N·m

10 ... 10

##### Arrangement of electrical connectors / for main current circuit

sonstige

#### Degree of protection and safety class:

##### Protection class IP

- open
- on the front
- with closed switch
  - without cover or cable lug cover
  - with cover or cable lug cover

IP20

IP40

IP30

IP40

##### Degree of pollution

3

##### Mechanical operating cycles as operating time / typical

1,600

#### Ambient conditions:

##### Ambient temperature

- during operating
- during storage

°C

-25 ... +55

°C

-50 ... +80

#### Installation/mounting/dimensions:

##### Mounting type

- rail mounting
- front mounting
- front mounting with central attachment
- front mounting with 4-hole attachment
- floor mounting

busbar mounting

Yes

No

No

No

No

##### mounting position

waagrecht oder senkrecht

##### Width

mm

183.7

##### Height

mm

306

##### Depth

mm

215.8

##### Largeur

|                     |    |           |
|---------------------|----|-----------|
| • du jeu de barres  | mm | 12 ... 30 |
| Center line spacing | mm | 60        |
| Net weight          | kg | 3.29      |

#### Certificates/approvals:

| General Product Approval                                                          |                                                                                   |                                                                                   |                                                                                   | Declaration of Conformity                                                           | Test Certificates                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|
|  |  |  |  |  | <a href="#">Type Test Certificates/Test Report</a> |
| CCC                                                                               | GOST                                                                              | UL                                                                                | UR                                                                                | EG-Konf.                                                                            |                                                    |

#### Shipping Approval



DNV

GL

LRS

#### Further information:

##### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

##### Industry Mall (Online ordering system)

<https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3NP1143-1JC21>

##### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3NP1143-1JC21/all>

##### Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

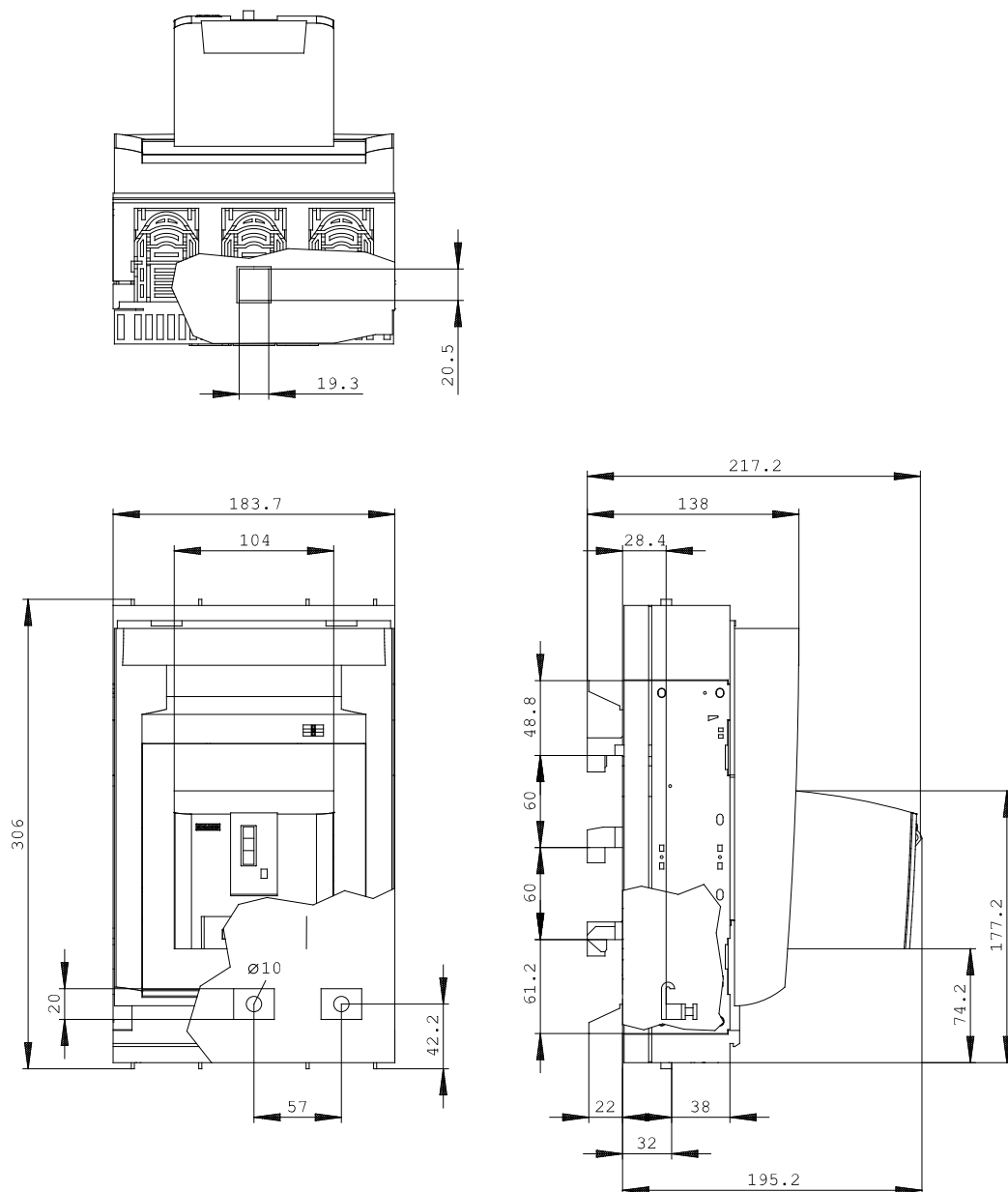
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1143-1JC21](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1143-1JC21)

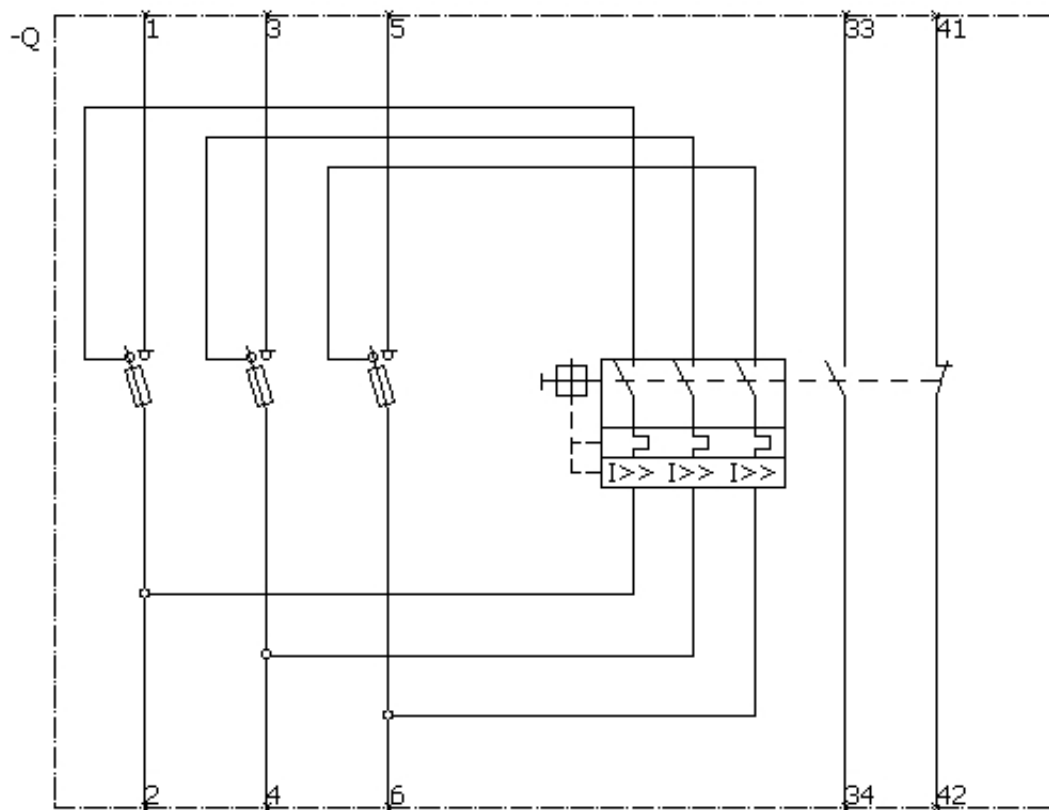
##### CAX-Online-Generator

<http://www.siemens.com/cax>

##### Tender specifications

[Datanorm](#) [GAEB81](#) [GAEB83](#) [RTF](#) [TXT](#)





last change:

Jul 7, 2014