



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH000 narrow, 125 A, for assembly and installation on Mounting plate, box terminal, Cover level 45 mm

| Model                                              |                                                 |
|----------------------------------------------------|-------------------------------------------------|
| product designation                                | Fuse switch disconnecter                        |
| design of the safety monitoring                    | Without                                         |
| design of the load switch strip form               | No                                              |
| type of the driving mechanism motor drive          | No                                              |
| General technical data                             |                                                 |
| number of poles                                    | 3                                               |
| type of device                                     | For assembly and installation on mounting plate |
| size of disconnecting link                         | 0                                               |
| size of fuse link                                  | NH000                                           |
| mechanical service life (operating cycles) typical | 2 000                                           |
| power factor                                       |                                                 |
| • at AC-22 B                                       | 0.65                                            |
| • at AC-23 B                                       | 0.35                                            |
| fuse system                                        | LV HRC fuse                                     |
| degree of pollution                                | 2                                               |
| Voltage                                            |                                                 |
| insulation voltage                                 |                                                 |
| • rated value                                      | 800 V                                           |
| • with degree of pollution 2 at AC rated value     | 800 V                                           |
| power factor at AC-21 B                            | 0.95                                            |
| surge voltage resistance rated value               | 6 kV                                            |
| operational current                                |                                                 |
| • at 35 °C rated value                             | 125 A                                           |
| • at 40 °C rated value                             | 111 A                                           |
| • at 45 °C rated value                             | 95 A                                            |
| • at 50 °C rated value                             | 76 A                                            |
| • at 55 °C rated value                             | 51 A                                            |
| • at AC-21 B at 240 V rated value                  | 125 A                                           |
| • at AC-21 B at 400 V rated value                  | 125 A                                           |
| • at AC-21 B at 500 V rated value                  | 125 A                                           |
| • at AC-21 B at 690 V rated value                  | 80 A                                            |
| • at AC-22 B at 240 V rated value                  | 125 A                                           |
| • at AC-22 B at 400 V rated value                  | 125 A                                           |
| • at AC-22 B at 500 V rated value                  | 125 A                                           |
| • at AC-23 B at 400 V rated value                  | 125 A                                           |
| • at AC-23 B at 240 V rated value                  | 125 A                                           |
| operating voltage                                  |                                                 |
| • at AC rated value maximum                        | 690 V                                           |
| Protection class                                   |                                                 |

|                                                                        |                     |
|------------------------------------------------------------------------|---------------------|
| <b>protection class IP</b>                                             |                     |
| • with closed switch with cover or cable lug cover                     | IP30                |
| • with closed switch without cover or cable lug cover                  | IP10                |
| • open                                                                 | IP10                |
| <b>Dissipation</b>                                                     |                     |
| <b>power loss [W]</b>                                                  |                     |
| • with conventional rated thermal current without fuse per pole        | 3.6 W               |
| • with conventional rated thermal current without fuse per device      | 10.8 W              |
| • for rated value of the current at AC in hot operating state per pole | 10.7 W              |
| • of the fuse per fuse maximum                                         | 9 W                 |
| <b>Main circuit</b>                                                    |                     |
| <b>operational current</b>                                             |                     |
| • rated value                                                          | 125 A               |
| <b>Auxiliary circuit</b>                                               |                     |
| number of CO contacts for auxiliary contacts                           | 0                   |
| number of NC contacts for auxiliary contacts                           | 0                   |
| number of NO contacts for auxiliary contacts                           | 0                   |
| <b>Suitability</b>                                                     |                     |
| suitability for use main switch                                        | No                  |
| suitability for use switch disconnecter                                | Yes                 |
| suitability for use EMERGENCY OFF switch                               | No                  |
| suitability for use safety switch                                      | Yes                 |
| suitability for use maintenance/repair switch                          | Yes                 |
| <b>Product details</b>                                                 |                     |
| product function phase failure monitoring                              | No                  |
| product component                                                      |                     |
| • undervoltage release                                                 | No                  |
| • undervoltage release with leading contact                            | No                  |
| product feature sealable                                               | Yes                 |
| product extension auxiliary switch                                     | Yes                 |
| product extension optional locking capability                          | Yes                 |
| product extension optional phase failure monitoring                    | No                  |
| product extension optional fuse monitoring                             | No                  |
| product extension optional voltage trigger                             | No                  |
| product extension optional overvoltage protection monitoring           | No                  |
| <b>Product function</b>                                                |                     |
| product function overvoltage protection monitoring                     | No                  |
| <b>Short circuit</b>                                                   |                     |
| <b>conditional short-circuit current (I<sub>q</sub>)</b>               |                     |
| • at AC at 240 V with high-speed activation rated value                | 80 kA               |
| • at AC at 500 V with high-speed activation rated value                | 120 kA              |
| • at AC at 690 V with high-speed activation rated value                | 80 kA               |
| • with closed switch at AC at 240 V rated value                        | 80 kA               |
| • with closed switch at AC at 500 V rated value                        | 80 kA               |
| • with closed switch at AC at 690 V rated value                        | 80 kA               |
| <b>Connections</b>                                                     |                     |
| arrangement of electrical connectors for main current circuit          | other               |
| <b>connectable conductor cross-section for main contacts</b>           |                     |
| • solid or stranded minimum                                            | 1.5 mm <sup>2</sup> |
| • solid or stranded maximum                                            | 50 mm <sup>2</sup>  |
| • finely stranded with core end processing minimum                     | 1.5 mm <sup>2</sup> |
| • finely stranded with core end processing maximum                     | 35 mm <sup>2</sup>  |
| • stranded minimum                                                     | 16 mm <sup>2</sup>  |
| • stranded maximum                                                     | 50 mm <sup>2</sup>  |
| <b>tightening torque with screw-type terminals</b>                     |                     |
| • minimum                                                              | 4 N·m               |
| • maximum                                                              | 5 N·m               |

|                                                                                  |                     |
|----------------------------------------------------------------------------------|---------------------|
| type of connectable conductor cross-sections of the laminated conductors maximum | 6 x (9 x 0.8) mm    |
| <b>type of connection technology</b>                                             | Box terminal        |
| <b>Mechanical Design</b>                                                         |                     |
| height                                                                           | 216 mm              |
| width                                                                            | 53 mm               |
| depth                                                                            | 89 mm               |
| fastening method                                                                 | mounting plate      |
| fastening method                                                                 |                     |
| • floor mounting                                                                 | Yes                 |
| • rail mounting                                                                  | No                  |
| mounting position                                                                | horizontal/vertical |
| net weight                                                                       | 0.471 kg            |

|                                      |        |
|--------------------------------------|--------|
| <b>Environmental conditions</b>      |        |
| ambient temperature during operation |        |
| • minimum                            | -25 °C |
| • maximum                            | 70 °C  |
| ambient temperature during storage   |        |
| • minimum                            | -50 °C |
| • maximum                            | 80 °C  |

|                                         |   |
|-----------------------------------------|---|
| <b>Certificates</b>                     |   |
| reference code according to IEC 81346-2 | Q |

#### Approvals Certificates

|                          |                   |       |
|--------------------------|-------------------|-------|
| General Product Approval | Test Certificates | other |
|--------------------------|-------------------|-------|



[Miscellaneous](#)



[Type Test Certificates/Test Report](#)

[Confirmation](#)

|       |             |
|-------|-------------|
| other | Environment |
|-------|-------------|



[Environmental Conformations](#)

[Environmental Conformations](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3NP1113-1CA20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1113-1CA20>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1113-1CA20](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1113-1CA20)

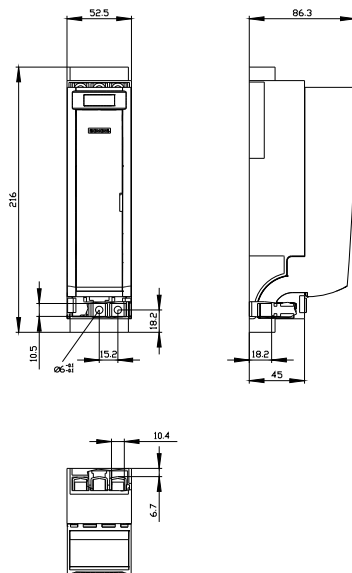
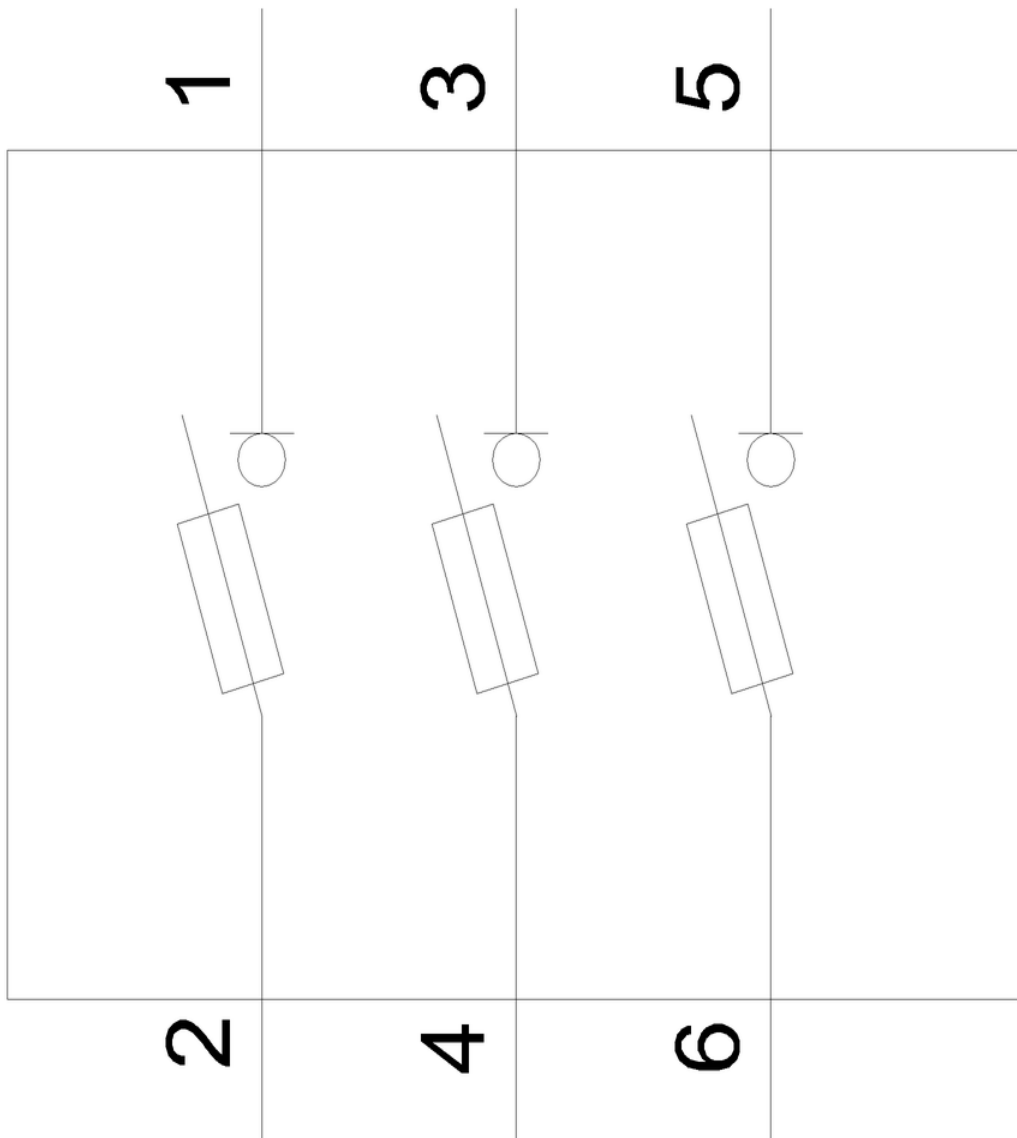
CAX-Online-Generator

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

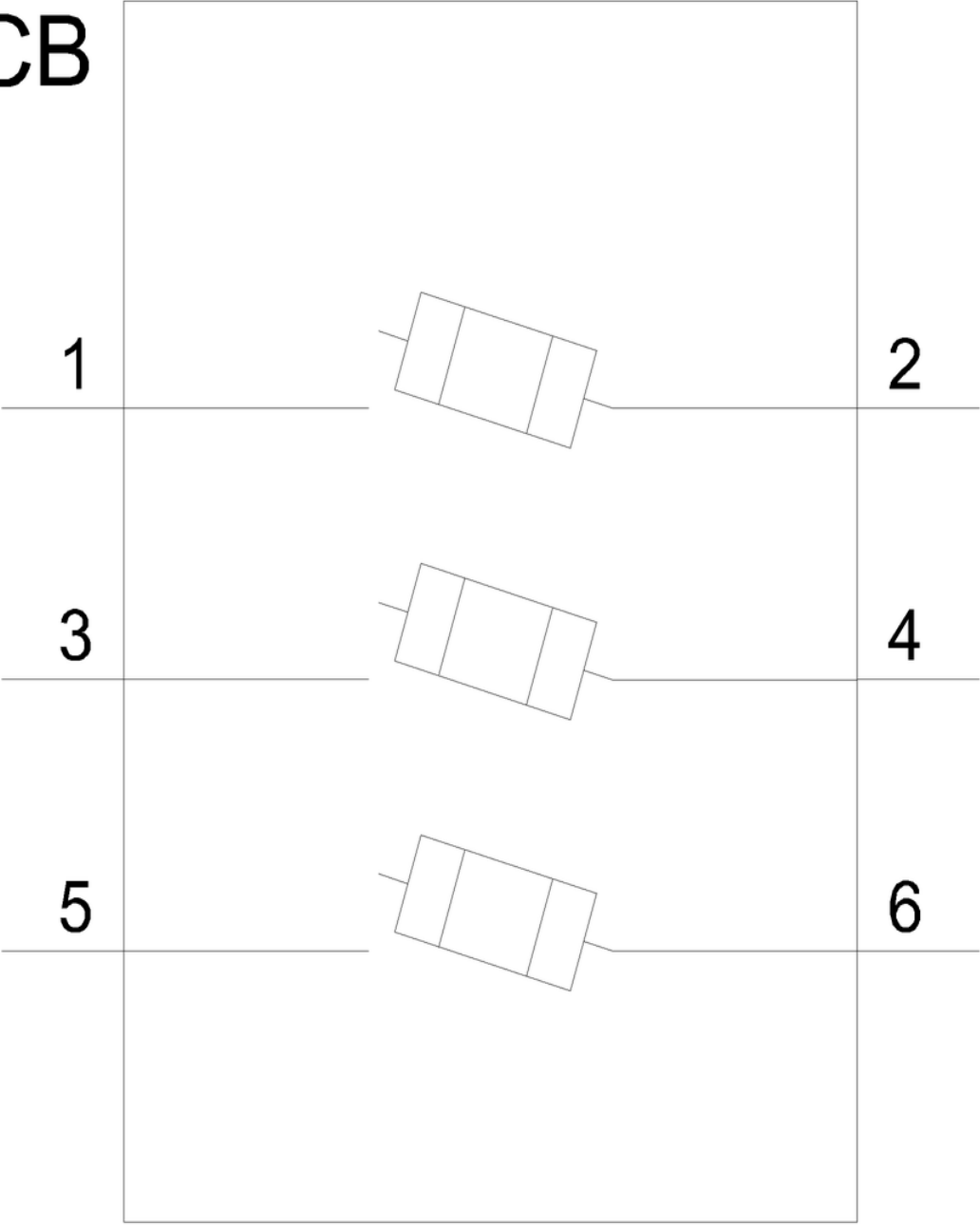
Tender specifications

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

Q



CB



last modified:

4/10/2025 

