



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH2, 400 A, for assembly and installation on mounting plate, flat terminal, cover level 70 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                         | 2 and 1                                         |
| size of fuse link                                  | NH1, NH2                                        |
| let-through current with closed switch maximum     | 40 kA                                           |
| mechanical service life (operating cycles) typical | 1 000                                           |
| I <sub>2t</sub> value with closed switch maximum   | 2 150 kA <sup>2</sup> .s                        |
| power factor                                       |                                                 |
| • at AC-22 B                                       | 0.65                                            |
| • at AC-23 B                                       | 0.35                                            |
| • with capacitive load                             | -0.25                                           |
| fuse system                                        | LV HRC fuse                                     |
| degree of pollution                                | 3                                               |
| Voltage                                            |                                                 |
| insulation voltage                                 |                                                 |
| • rated value                                      | 690 V                                           |
| • with degree of pollution 3 at AC rated value     | 690 V                                           |
| • with degree of pollution 2 at AC rated value     | 1 000 V                                         |
| power factor at AC-21 B                            | 0.95                                            |
| surge voltage resistance rated value               | 8 kV                                            |
| operational current                                |                                                 |
| • at 35 °C rated value                             | 400 A                                           |
| • at 40 °C rated value                             | 400 A                                           |
| • at 45 °C rated value                             | 392 A                                           |
| • at 50 °C rated value                             | 372 A                                           |
| • at 55 °C rated value                             | 356 A                                           |
| • at AC-21 B at 240 V rated value                  | 400 A                                           |
| • at AC-21 B at 400 V rated value                  | 400 A                                           |
| • at AC-21 B at 500 V rated value                  | 400 A                                           |
| • at AC-21 B at 690 V rated value                  | 400 A                                           |
| • at AC-22 B at 240 V rated value                  | 400 A                                           |
| • at AC-22 B at 400 V rated value                  | 400 A                                           |
| • at AC-22 B at 500 V rated value                  | 400 A                                           |
| • at AC-22 B at 690 V rated value                  | 400 A                                           |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• at AC-23 B at 690 V rated value</li> <li>• at AC-23 B at 500 V rated value</li> <li>• at AC-23 B at 400 V rated value</li> <li>• at AC-23 B at 240 V rated value</li> <li>• at DC-21 B at 120 V rated value</li> <li>• at DC-21 B at 240 V rated value</li> <li>• at DC-21 B at 440 V rated value</li> <li>• at DC-22 B at 120 V rated value</li> <li>• at DC-22 B at 240 V rated value</li> <li>• at DC-22 B at 440 V rated value</li> <li>• at DC-23 B at 120 V rated value</li> <li>• at DC-23 B at 240 V rated value</li> <li>• at DC-23 B at 440 V rated value</li> </ul> | 125 A<br>315 A<br>400 A<br>400 A<br>400 A<br>400 A<br>400 A<br>400 A<br>400 A<br>315 A<br>250 A<br>250 A<br>160 A |
| <b>let-through current with high-speed activation maximum permissible</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 40 kA                                                                                                             |
| <b>operating voltage</b> <ul style="list-style-type: none"> <li>• at AC rated value maximum</li> <li>• at DC rated value</li> <li>• at DC rated value maximum</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                | 690 V<br>440 V<br>440 V                                                                                           |
| <b>Protection class</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                   |
| <b>protection class IP</b> <ul style="list-style-type: none"> <li>• with closed switch with cover or cable lug cover</li> <li>• with closed switch without cover or cable lug cover</li> <li>• open</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                          | IP40<br>IP30<br>IP20                                                                                              |
| <b>Dissipation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                   |
| <b>power loss [W]</b> <ul style="list-style-type: none"> <li>• with conventional rated thermal current without fuse per pole</li> <li>• with conventional rated thermal current without fuse per device</li> <li>• for rated value of the current at AC in hot operating state per pole</li> <li>• of the fuse per fuse maximum</li> </ul>                                                                                                                                                                                                                                                                              | 14 W<br>42 W<br>48 W<br>34 W                                                                                      |
| <b>Main circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                   |
| <b>operational current</b> <ul style="list-style-type: none"> <li>• rated value</li> <li>• with capacitive load at 400 V rated value</li> <li>• with capacitive load at 500 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                    | 400 A<br>72 A<br>55 A                                                                                             |
| <b>Auxiliary circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                   |
| number of CO contacts for auxiliary contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0                                                                                                                 |
| <b>number of NC contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0                                                                                                                 |
| <b>number of NO contacts for auxiliary contacts</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0                                                                                                                 |
| <b>Suitability</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                   |
| <b>suitability for use main switch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No                                                                                                                |
| <b>suitability for use switch disconnecter</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                               |
| <b>suitability for use EMERGENCY OFF switch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No                                                                                                                |
| <b>suitability for use safety switch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                                                                               |
| <b>suitability for use maintenance/repair switch</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Yes                                                                                                               |
| <b>Product details</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                   |
| product function phase failure monitoring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No                                                                                                                |
| product component <ul style="list-style-type: none"> <li>• undervoltage release</li> <li>• undervoltage release with leading contact</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No<br>No                                                                                                          |
| product feature sealable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                                                                               |
| product extension auxiliary switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Yes                                                                                                               |
| <b>product extension optional</b> <ul style="list-style-type: none"> <li>• locking capability</li> <li>• phase failure monitoring</li> <li>• fuse monitoring</li> <li>• voltage trigger</li> <li>• overvoltage protection monitoring</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         | Yes<br>Yes<br>Yes<br>No<br>Yes                                                                                    |

| Product function                                                                 |                     |
|----------------------------------------------------------------------------------|---------------------|
| product function overvoltage protection monitoring                               | No                  |
| Short circuit                                                                    |                     |
| <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                          | 80 kA               |
| • at AC at 690 V with high-speed activation rated value                          | 50 kA               |
| • with closed switch at AC at 240 V rated value                                  | 100 kA              |
| • with closed switch at AC at 500 V rated value                                  | 100 kA              |
| • with closed switch at AC at 690 V rated value                                  | 100 kA              |
| Connections                                                                      |                     |
| arrangement of electrical connectors for main current circuit                    | other               |
| <b>connectable conductor cross-section for main contacts</b>                     |                     |
| • solid or stranded minimum                                                      | 25 mm <sup>2</sup>  |
| • solid or stranded maximum                                                      | 240 mm <sup>2</sup> |
| • stranded minimum                                                               | 25 mm <sup>2</sup>  |
| • stranded maximum                                                               | 240 mm <sup>2</sup> |
| <b>tightening torque with screw-type terminals</b>                               |                     |
| • minimum                                                                        | 10 N·m              |
| • maximum                                                                        | 12 N·m              |
| type of connectable conductor cross-sections of the laminated conductors maximum | 34 x 18 mm          |
| <b>type of connection technology</b>                                             | Flat terminal       |
| Mechanical Design                                                                |                     |
| <b>height</b>                                                                    | 306 mm              |
| <b>width</b>                                                                     | 209.4 mm            |
| <b>depth</b>                                                                     | 130 mm              |
| <b>fastening method</b>                                                          | mounting plate      |
| <b>fastening method</b>                                                          |                     |
| • floor mounting                                                                 | Yes                 |
| • rail mounting                                                                  | No                  |
| <b>mounting position</b>                                                         | horizontal/vertical |
| <b>net weight</b>                                                                | 4.21 kg             |
| Environmental conditions                                                         |                     |
| <b>ambient temperature during operation</b>                                      |                     |
| • minimum                                                                        | -25 °C              |
| • maximum                                                                        | 55 °C               |
| <b>ambient temperature during storage</b>                                        |                     |
| • minimum                                                                        | -50 °C              |
| • maximum                                                                        | 80 °C               |
| Certificates                                                                     |                     |
| <b>reference code according to IEC 81346-2</b>                                   | Q                   |
| Approvals Certificates                                                           |                     |
| General Product Approval                                                         |                     |



[Confirmation](#)



General Product Approval

Test Certificates

Marine / Shipping

[Miscellaneous](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



other

Environment

[Miscellaneous](#)

[Confirmation](#)

[Environmental Con-](#)

[Environmental Con-](#)

**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=3NP1153-1DA10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1153-1DA10>

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

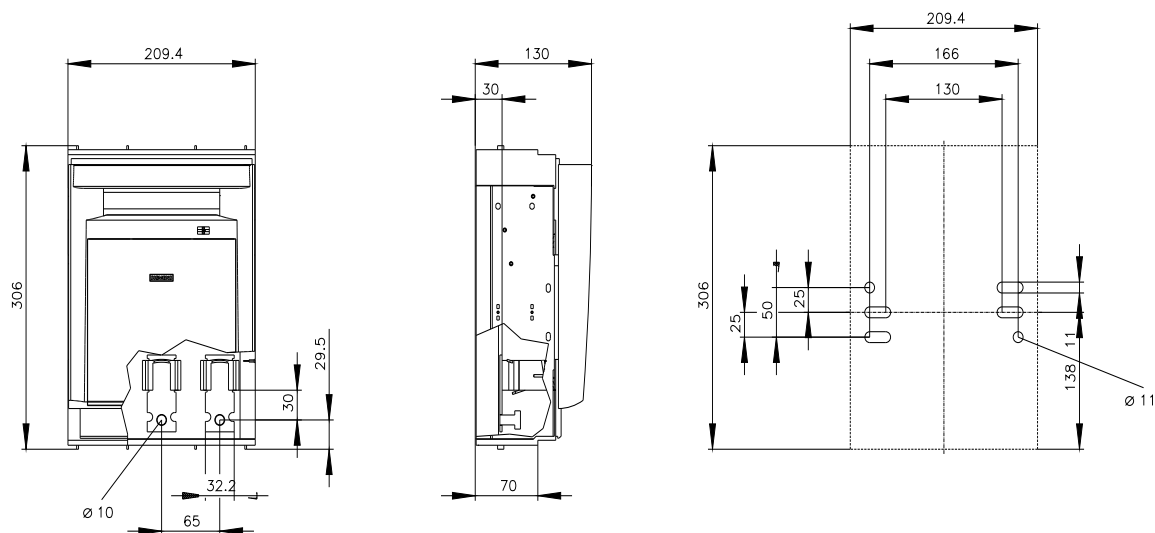
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3NP1153-1DA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1153-1DA10)

**CAX-Online-Generator**

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

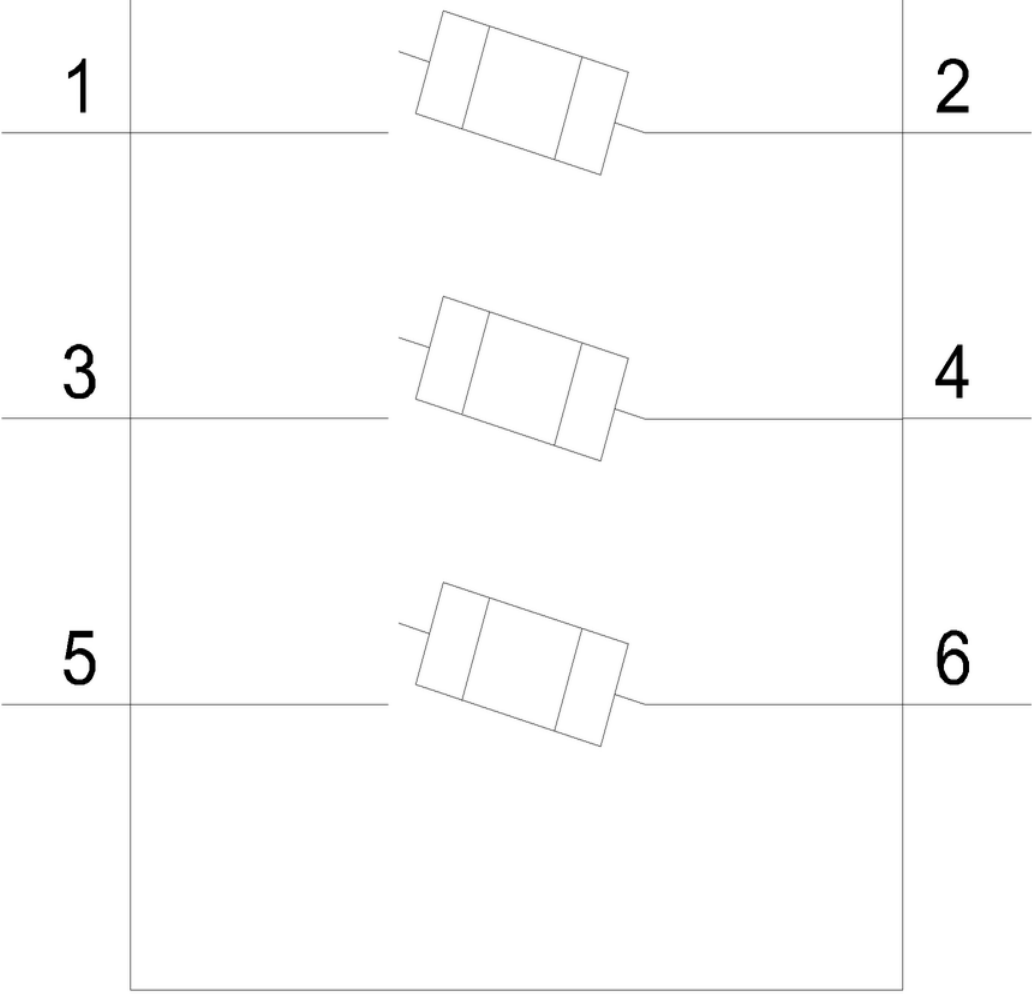
**Tender specifications**

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





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