## **SIEMENS**

Data sheet 3NP1133-1JC21

SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH00, 160 A, for Rittal busbar system 60 mm, Box terminal, Fuse monitoring: electromechanical, Cover level 32/70 mm



| Model                                       |                               |
|---|-------------------------------|
| Product brand name                          | SENTRON                       |
| Product designation                         | 3NP1 fuse switch disconnector |
| Design of the product                       | cover level 32/70 mm          |
| Busbar design                               | busbar thickness 5 or 10 mm   |
| Design of the safety monitoring             | electro mechanical            |
| Design of the operating mechanism           | Cover handle                  |
| 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 Rittal 60 mm busbar system |
| Size of disconnecting link                                     | 00 and 000                     |
| Size of fuse link  | NH000, NH00                    |
| Continuous current / at 35 °C / rated value                    | 160 A                          |
| Let-through current / with closed switch / maximum permissible | 23 kA                          |
| cut-off value I**2t,max. / 500 V                               | 158 000 A²·s                   |
| Power factor   |                                |

| 0.65         |
|--------------|
| 0.45         |
| -0.25        |
| 3NP11        |
| 2 000        |
| LV HRC fuse  |
|              |
| 690 V        |
| 0.95         |
| 8 kV         |
|              |
|              |
| IP40         |
| IP30         |
| IP40         |
| IP20         |
|              |
|              |
| 160 A        |
| 155 A        |
| 145 A        |
| 140 A        |
| 133 A        |
| 15 kA        |
|              |
| 23 000 A     |
| 23 000 A     |
| 158 000 A²·s |
|              |
|              |
| 24 V         |
| 690 V        |
| 250 V        |
| 24 V         |
| 250 V        |
|              |
|              |
| 72 A         |
|              |

| Auxiliary circuit   |        |  |
|---|--------|--|
| Number of CO contacts / for auxiliary contacts                                      | 0      |  |
| Number of NC contacts / for auxiliary contacts                                      | 0      |  |
| Number of NO contacts / for auxiliary contacts                                      | 0      |  |
| Suitability   |        |  |
| Suitability for use   |        |  |
| Main switch   | No     |  |
| switch disconnector   | Yes    |  |
| EMERGENCY OFF switch  | No     |  |
| • safety switch   | Yes    |  |
| maintenance/repair switch   | Yes    |  |
| mantonaneo, opan omten  |        |  |
| Product details   |        |  |
| Product feature / interlock   | Yes    |  |
| Product component   | v      |  |
| Trip indicator  | Yes    |  |
| Phase failure monitoring  | No     |  |
| undervoltage release  | No     |  |
| undervoltage release with leading contact   | No     |  |
| Product feature / sealable  | Yes    |  |
| Product extension   |        |  |
| Auxiliary switch  | Yes    |  |
| • optional  |        |  |
| <ul> <li>locking capability</li> </ul>  | Yes    |  |
| — motor drive   | No     |  |
| <ul> <li>Phase failure monitoring</li> </ul>  | Yes    |  |
| — Voltage trigger   | No     |  |
| <ul> <li>Overvoltage protection monitoring</li> </ul>                               | Yes    |  |
| Product function  |        |  |
| Product function  |        |  |
| • fuse monitoring   | Yes    |  |
| <ul> <li>Overvoltage protection monitoring</li> </ul>                               | No     |  |
| Short circuit   |        |  |
| Conditional short-circuit current (Iq)  |        |  |
| • rated value   | 80 kA  |  |
| • at AC / at 500 V / with high-speed activation /                                   | 80 kA  |  |
| rated value   |        |  |
| <ul> <li>at AC / at 690 V / with high-speed activation /<br/>rated value</li> </ul> | 80 kA  |  |
| <ul> <li>with closed switch / at AC / at 500 V / rated value</li> </ul>             | 120 kA |  |
|   |        |  |

• with closed switch / at AC / at 690 V / rated value

120 kA

| Connections  |                     |  |  |
|--|---------------------|--|--|
| Arrangement of electrical connectors / for main                              | other               |  |  |
| current circuit  |                     |  |  |
| Connectable conductor cross-section / for main contacts                      |                     |  |  |
|  | 6 mm²               |  |  |
| single or multi-stranded / minimum   |                     |  |  |
| single or multi-stranded / maximum   | 70 mm²              |  |  |
| <ul> <li>finely stranded / with core end processing /<br/>minimum</li> </ul> | 6 mm²               |  |  |
| <ul> <li>finely stranded / with core end processing /<br/>maximum</li> </ul> | 50 mm²              |  |  |
| • stranded / minimum   | 6 mm²               |  |  |
| • stranded / maximum   | 70 mm²              |  |  |
| Tightening torque / with screw-type terminals                                |                     |  |  |
| • minimum  | 10 N·m              |  |  |
| • maximum  | 10 N·m              |  |  |
| Type of electrical connection / for main current circuit                     | box terminal        |  |  |
| Mechanical Design  |                     |  |  |
| Height   | 215.1 mm            |  |  |
| Width  | 105.8 mm            |  |  |
| Depth  | 213.5 mm            |  |  |
| Mounting position  | horizontal/vertical |  |  |
| Mounting type  | busbar              |  |  |
| Mounting type  |                     |  |  |
| • floor mounting   | No                  |  |  |
| • front mounting   | No                  |  |  |
| • front mounting with 4-hole attachment                                      | No                  |  |  |
| front mounting with central attachment                                       | No                  |  |  |
| • rail mounting  | Yes                 |  |  |
| Busbar center-to-center spacing  | 60 mm               |  |  |
| Net weight   | 1.42 kg             |  |  |
| Environmental conditions   |                     |  |  |
| Degree of pollution  | 3                   |  |  |
| Ambient temperature  |                     |  |  |
| during operation / minimum   | -25 °C              |  |  |
| during operation / maximum   | 55 °C               |  |  |
| during storage / minimum   | -50 °C              |  |  |
| during storage / maximum   | 80 °C               |  |  |
| Certificates   |                     |  |  |
|  |                     |  |  |

Reference code

• acc. to DIN EN 61346-2

Q Q

• acc. to DIN EN 81346-2 **General Product Approval** 

**Declaration of** Conformity

**Test Certific**ates

Shipping Approval





Miscellaneous



Type Test Certificates/Test Report



LRS

## Further information

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=3NP1133-1JC21

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1JC21

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3NP1133-1JC21

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications









