SIEMENS

Data sheet 3NP1133-1JC12



SENTRON, Fuse switch disconnector 3NP1, 3-pole, NH00, 160 A, for Rittal busbar system 60 mm, flat terminal, Fuse monitoring: electronic EFM10, 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 | electronic EFM 10 |
| design of the actuating element | 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 |
| let-through current with closed switch maximum permissible | 23 kA |
| mechanical service life (operating cycles) typical | 2 000 |
| power factor | |
| • at AC-22 B | 0.65 |
| ● at AC-23 B | 0.45 |
| with capacitive load | -0.25 |
| fuse system | LV HRC fuse |
| degree of pollution | 2 |
| 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 |
| operating voltage | |
| at AC rated value minimum | 230 V |
| at AC rated value maximum | 690 V |
| Protection class | |
| protection class IP | |
| with closed switch with cover or cable lug cover | IP40 |
| with closed switch without cover or cable lug cover | IP30 |
| • open | IP20 |
| on the front | IP40 |
| Dissipation | |
| power loss [W] | |

| with conventional rated thermal current without fuse | 5 W |
|---|-------|
| per pole | 45.14 |
| with conventional rated thermal current without fuse per device | 15 W |
| for rated value of the current at AC in hot operating | 17 W |
| state per pole | 17 ** |
| of the fuse per fuse maximum | 12 W |
| Current | |
| operational current | |
| at 35 °C rated value | 160 A |
| at 40 °C rated value | 155 A |
| at 45 °C rated value | 145 A |
| at 50 °C rated value | 140 A |
| at 55 °C rated value | 133 A |
| at AC rated value | 160 A |
| at AC-23 B at 690 V rated value | 35 A |
| • at AC-23 B at 500 V rated value | 63 A |
| at AC-23 B at 400 V rated value | 160 A |
| • at AC-23 B at 240 V rated value | 160 A |
| at AC-22 B at 690 V rated value | 125 A |
| • at AC-22 B at 500 V rated value | 160 A |
| • at AC-22 B at 400 V rated value | 160 A |
| • at AC-22 B at 240 V rated value | 160 A |
| • at AC-21 B at 240 V rated value | 160 A |
| • at AC-21 B at 400 V rated value | 160 A |
| at AC-21 B at 500 V rated value | 160 A |
| at AC-21 B at 690 V rated value | 160 A |
| let-through current with high-speed activation maximum | 15 kA |
| permissible | |
| Main circuit | |
| operational current | |
| rated value | 160 A |
| with capacitive load at 400 V rated value | 72 A |
| with capacitive load at 500 V rated value | 55 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 |
| Product details | |
| product component | |
| • trip indicator | Yes |
| undervoltage release | No |
| undervoltage release with leading contact | No |
| product feature sealable | Yes |
| product extension auxiliary switch | Yes |
| product extension optional | |
| locking capability | Yes |
| motor drive | No |
| phase failure monitoring | Yes |
| voltage trigger | No |
| overvoltage protection monitoring | Yes |
| Product function | |
| product function | |
| fuse monitoring | Yes |
| overvoltage protection monitoring | No |
| Connections | |
| | |

other arrangement of electrical connectors for main current connectable conductor cross-section for main contacts • solid or stranded minimum 2.5 mm² • solid or stranded maximum 95 mm² 2.5 mm² stranded minimum 95 mm² stranded maximum tightening torque with screw-type terminals 10 N·m • minimum maximum 12 N·m type of connectable conductor cross-sections of the 24 x 12 mm laminated conductors maximum type of connection technology Flat terminal type of electrical connection for main current circuit busbar connection Mechanical Design 215.1 mm height width 105.8 mm depth 174.2 mm fastening method busbar fastening method • floor mounting No • 4-hole front mounting No • front mounting with central attachment No rail mounting Yes mounting position horizontal/vertical busbar center-to-center spacing 60 mm net weight 1.12 kg **Environmental conditions** ambient temperature during operation -25 °C minimum 55 °C maximum ambient temperature during storage • minimum -50 °C maximum 80 °C **Declaration of General Product Approval** Conformity



Confirmation



Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping

other



Type Test Certificates/Test Report





Environmental Confirmations

Miscellaneous

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=3NP1133-1JC12

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

https://support.industry.siemens.com/cs/ww/en/ps/3NP1133-1JC12

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1133-1JC12

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



