



SENTRON, Fuse switch disconnecter 3NP1, 3-pole, NH000, 160 A, for assembly and installation on Mounting plate, box terminal, Cover level 45 mm

| Model | |
|--|---|
| product brand name | SENTRON |
| product designation | 3NP1 fuse switch disconnecter |
| design of the product | cover level 45 mm |
| design of the safety monitoring | Without |
| 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 assembly and installation on mounting plate |
| size of disconnecting link | 000 |
| size of fuse link | NH000 |
| let-through current / with closed switch / maximum permissible | 15 kA |
| mechanical service life (switching 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 | 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 |
| operating voltage | |
| • at AC / rated value / maximum | 690 V |
| • at DC / rated value | 440 V |
| • at DC / rated value / maximum | 440 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 |
| • on the front | IP40 |

| | |
|--|-------|
| • open | IP20 |
| Dissipation | |
| power loss [W] | |
| • with conventional rated thermal current / without fuse / per pole | 5 W |
| • with conventional rated thermal current / without fuse / per device | 15 W |
| • for rated value of the current / at AC / in hot operating state / per pole | 14 W |
| • of the fuse / per fuse / maximum | 9 W |
| Current | |
| operational current | |
| • at 35 °C / rated value | 160 A |
| • at 40 °C / rated value | 150 A |
| • at 45 °C / rated value | 140 A |
| • at 50 °C / rated value | 130 A |
| • at 55 °C / rated value | 120 A |
| • at AC / rated value | 160 A |
| • at AC-23 B / at 690 V / rated value | 25 A |
| • at AC-23 B / at 500 V / rated value | 40 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 | 50 A |
| • at AC-22 B / at 500 V / rated value | 125 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 690 V / rated value | 160 A |
| • at AC-21 B / at 500 V / rated value | 160 A |
| • at AC-21 B / at 400 V / rated value | 160 A |
| • at AC-21 B / at 240 V / rated value | 160 A |
| • at DC-23 B / at 440 V / rated value | 25 A |
| • at DC-23 B / at 240 V / rated value | 80 A |
| • at DC-23 B / at 120 V / rated value | 80 A |
| • at DC-22 B / at 440 V / rated value | 50 A |
| • at DC-22 B / at 240 V / rated value | 100 A |
| • at DC-22 B / at 120 V / rated value | 100 A |
| • at DC-21 B / at 440 V / rated value | 100 A |
| • at DC-21 B / at 240 V / rated value | 160 A |
| • at DC-21 B / at 120 V / rated value | 160 A |
| let-through current / with high-speed activation / maximum permissible | 10 kA |
| Main circuit | |
| operational current | |
| • rated value | 100 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 disconnecter | Yes |
| • EMERGENCY OFF switch | No |
| • safety switch | Yes |
| • maintenance/repair switch | Yes |
| Product details | |

| | |
|---|---|
| product feature / interlock | Yes |
| <ul style="list-style-type: none"> • product component / trip indicator • product function / phase failure monitoring • product component / undervoltage release • product component / undervoltage release with leading contact | No No No No |
| product feature / sealable | Yes |
| product extension / auxiliary switch | Yes |
| product extension / optional | |
| <ul style="list-style-type: none"> • locking capability • motor drive • phase failure monitoring • fuse monitoring • voltage trigger • overvoltage protection monitoring | Yes No Yes Yes No Yes |
| Product function | |
| product function | |
| <ul style="list-style-type: none"> • fuse monitoring • overvoltage protection monitoring | No No |
| Short circuit | |
| conditional short-circuit current (I _q) | |
| <ul style="list-style-type: none"> • rated value • at AC / at 240 V / with high-speed activation / rated value • at AC / at 500 V / with high-speed activation / rated value • at AC / at 690 V / with high-speed activation / rated value • with closed switch / at AC / at 240 V / rated value • with closed switch / at AC / at 500 V / rated value • with closed switch / at AC / at 690 V / rated value | 80 kA 80 kA 80 kA 50 kA 120 kA 120 kA 100 kA |
| Connections | |
| arrangement of electrical connectors / for main current circuit | other |
| connectable conductor cross-section / for main contacts | |
| <ul style="list-style-type: none"> • solid or stranded / minimum • solid or stranded / maximum • finely stranded / with core end processing / minimum • finely stranded / with core end processing / maximum • stranded / minimum • stranded / maximum | 1.5 mm ² 50 mm ² 1.5 mm ² 35 mm ² 1.5 mm ² 50 mm ² |
| tightening torque / with screw-type terminals | |
| <ul style="list-style-type: none"> • minimum • maximum | 3.5 N·m 4 N·m |
| type of connectable conductor cross-sections / of the laminated conductors / maximum | 8 x 8 mm |
| type of connection technology | Box terminal |
| type of electrical connection / for main current circuit | box terminal |
| Mechanical Design | |
| height | 141.7 mm |
| width | 88.8 mm |
| depth | 74.1 mm |
| fastening method | mounting plate |
| fastening method | |
| <ul style="list-style-type: none"> • floor mounting • 4-hole front mounting • front mounting with central attachment | Yes No No |

| | | |
|--|----------------------------------|--------------------------|
| • rail mounting | No | |
| mounting position | horizontal/vertical | |
| net weight | 0.47 kg | |
| Environmental conditions | | |
| ambient temperature / during operation | | |
| • minimum | -25 °C | |
| • maximum | 55 °C | |
| ambient temperature / during storage | | |
| • minimum | -50 °C | |
| • maximum | 80 °C | |
| General Product Approval | Declaration of Conformity | Test Certificates |



[Miscellaneous](#)



[Special Test Certificate](#)

| | | |
|--------------------------|--------------------------|--------------|
| Test Certificates | Marine / Shipping | other |
|--------------------------|--------------------------|--------------|

[Type Test Certificates/Test Report](#)



[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?mfb=3NP1123-1CA20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1123-1CA20>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3NP1123-1CA20

CAx-Online-Generator

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

Tender specifications

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





