

SETRON, fuse switch disconnecter 3NP1, 4-pole, NH00, 160 A, for busbar system 8US 60 mm, box terminal, cover level 32/70 mm



| Model | |
|--|-------------------------------|
| Product brand name | SETRON |
| Product designation | 3NP1 fuse switch disconnecter |
| Design of the product | cover level 32/70 mm |
| Busbar design | busbar thickness 5 or 10 mm |
| Design of the safety monitoring | Without |
| 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 | 4 |
| Type of device | For 60 mm 8US 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 $I^{*2}t_{max.}$ / 500 V | 158 000 A ² ·s |
| Power factor | |

| | |
|--|-------------|
| • at AC-22 B | 0.65 |
| • at AC-23 B | 0.35 |
| circuit-breaker / Design | 3NP11 |
| Mechanical service life (switching cycles) / typical | 1 600 |
| Fuse system | LV HRC fuse |

Voltage

| | |
|--|-------|
| Insulation voltage / rated value | 690 V |
| Power factor / at AC-21 B | 0.95 |
| Surge voltage resistance / rated value | 8 kV |

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 |

Electricity

| | |
|--|---------------------------|
| Continuous current | |
| • 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 |
| Let-through current / with high-speed activation / maximum permissible | 15 kA |
| Let-through current / I _c / maximum permissible | |
| • 400 V | 23 000 A |
| • 500V | 23 000 A |
| cut-off value I ² t _{max} / 400 V | 158 000 A ² ·s |

Main circuit

| | |
|---------------------------------|-------|
| Operating voltage | |
| • at AC / rated value / maximum | 690 V |
| • at DC / rated value | 440 V |
| • at DC / rated value / maximum | 440 V |

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 |
| Product component | |
| • Trip indicator | No |
| • Phase failure monitoring | No |
| • undervoltage release | No |
| • undervoltage release with leading contact | No |
| Product feature / sealable | Yes |
| Product extension | |
| • Auxiliary switch | Yes |
| • optional | |
| — locking capability | Yes |
| — motor drive | No |
| — Phase failure monitoring | Yes |
| — fuse monitoring | Yes |
| — Voltage trigger | No |
| — Overvoltage protection monitoring | Yes |
| Product function | |
| Product function | |
| • fuse monitoring | No |
| • Overvoltage protection monitoring | No |
| Short circuit | |
| Conditional short-circuit current (I _q) | |
| • 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 500 V / rated value | 120 kA |
| • with closed switch / at AC / at 690 V / rated value | 100 kA |
| Connections | |
| Arrangement of electrical connectors / for main current circuit | other |

| | |
|--|--------------------|
| Connectable conductor cross-section / for main contacts | |
| • single or multi-stranded / minimum | 6 mm ² |
| • single or multi-stranded / maximum | 70 mm ² |
| • finely stranded / with core end processing / minimum | 6 mm ² |
| • finely stranded / with core end processing / maximum | 50 mm ² |
| • stranded / minimum | 6 mm ² |
| • stranded / maximum | 70 mm ² |
| 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 | 206 mm |
| Width | 147.7 mm |
| Depth | 137.3 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 | 1.51 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 |
| • acc. to DIN EN 81346-2 | Q |

| General Product Approval | Declaration of Con- formity | Test Certificates |
|--|--|--|
|  CCC | Miscellaneous  EG-Konf. | Type Test Certificates/Test Report |

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=3NP1134-1BC20>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1134-1BC20>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3NP1134-1BC20

CAX-Online-Generator

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

Tender specifications

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

