



SETRON, Fuse switch disconnecter 3NP1, 3-pole, NH1, 250 A, for assembly and installation on mounting plate, Box terminal, Fuse monitoring: electronic EFM20, Cover level 70 mm

| Model | |
|--|---|
| product designation | Fuse switch disconnecter |
| design of the safety monitoring | electronic EFM 20 |
| 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 | 1 and 0 |
| size of fuse link | NH0, NH1 |
| let-through current with closed switch maximum | 32 kA |
| mechanical service life (operating cycles) typical | 1 600 |
| I ² t value with closed switch maximum | 780 kA ² .s |
| 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 |
| operational current | |
| • at 35 °C rated value | 250 A |
| • at 40 °C rated value | 245 A |
| • at 45 °C rated value | 240 A |
| • at 50 °C rated value | 233 A |
| • at 55 °C rated value | 233 A |
| • at AC-21 B at 240 V rated value | 250 A |
| • at AC-21 B at 400 V rated value | 250 A |
| • at AC-21 B at 500 V rated value | 250 A |
| • at AC-21 B at 690 V rated value | 250 A |
| • at AC-22 B at 240 V rated value | 250 A |
| • at AC-22 B at 400 V rated value | 250 A |
| • at AC-22 B at 500 V rated value | 250 A |
| • at AC-22 B at 690 V rated value | 250 A |

| | |
|---|---|
| <ul style="list-style-type: none"> • at AC-23 B at 690 V rated value • at AC-23 B at 500 V rated value • at AC-23 B at 400 V rated value • at AC-23 B at 240 V rated value | 100 A 200 A 250 A 250 A |
| let-through current with high-speed activation maximum permissible | 25 kA |
| operating voltage <ul style="list-style-type: none"> • at AC rated value minimum • at AC rated value maximum | 230 V 690 V |
| Protection class | |
| protection class IP <ul style="list-style-type: none"> • with closed switch with cover or cable lug cover • with closed switch without cover or cable lug cover • open | IP40 IP30 IP20 |
| Dissipation | |
| power loss [W] <ul style="list-style-type: none"> • with conventional rated thermal current without fuse per pole • with conventional rated thermal current without fuse per device • for rated value of the current at AC in hot operating state per pole • of the fuse per fuse maximum | 8 W 24 W 31 W 23 W |
| Main circuit | |
| operational current <ul style="list-style-type: none"> • rated value • with capacitive load at 400 V rated value • with capacitive load at 500 V rated value | 250 A 72 A 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 |
| suitability for use switch disconnecter | Yes |
| suitability for use EMERGENCY OFF switch | No |
| suitability for use safety switch | Yes |
| suitability for use maintenance/repair switch | Yes |
| Product details | |
| product function phase failure monitoring | Yes |
| product component <ul style="list-style-type: none"> • undervoltage release • undervoltage release with leading contact | No No |
| product feature sealable | Yes |
| product extension auxiliary switch | Yes |
| product extension optional <ul style="list-style-type: none"> • locking capability • voltage trigger | Yes No |
| Product function | |
| product function overvoltage protection monitoring | Yes |
| Short circuit | |
| conditional short-circuit current (I_q) <ul style="list-style-type: none"> • 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 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 | |

| | |
|--|---------------------|
| • solid or stranded minimum | 70 mm ² |
| • solid or stranded maximum | 185 mm ² |
| • finely stranded with core end processing minimum | 70 mm ² |
| • finely stranded with core end processing maximum | 120 mm ² |
| • stranded minimum | 70 mm ² |
| • stranded maximum | 185 mm ² |
| tightening torque with screw-type terminals | |
| • minimum | 10 N·m |
| • maximum | 10 N·m |
| type of connectable conductor cross-sections of the laminated conductors maximum | 20 x 10 mm |
| type of connection technology | Box terminal |

Mechanical Design

| | |
|--------------------------|---------------------|
| height | 306 mm |
| width | 183.7 mm |
| depth | 146.5 mm |
| fastening method | mounting plate |
| fastening method | |
| • floor mounting | Yes |
| • rail mounting | No |
| mounting position | horizontal/vertical |
| net weight | 2.33 kg |

Environmental conditions

| | |
|---|--------|
| ambient temperature during operation | |
| • minimum | -25 °C |
| • maximum | 55 °C |
| ambient temperature during storage | |
| • minimum | -50 °C |
| • maximum | 80 °C |

Certificates

| | |
|--|---|
| reference code according to IEC 81346-2 | Q |
|--|---|

Approvals Certificates

| |
|---------------------------------|
| General Product Approval |
|---------------------------------|



[Confirmation](#)



EG-Konf.



UR



VDE

| | | | |
|---------------------------------|--------------------------|--------------------------|--------------|
| General Product Approval | Test Certificates | Marine / Shipping | other |
|---------------------------------|--------------------------|--------------------------|--------------|

[Miscellaneous](#)



[Type Test Certificates/Test Report](#)



DNV



LRS

[Confirmation](#)

| | |
|--------------|--------------------|
| other | Environment |
|--------------|--------------------|

[Miscellaneous](#)

[Environmental Confirmations](#)

[Environmental Confirmations](#)

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=3NP1143-1DA23>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3NP1143-1DA23>





