










SENTRON, fuse switch disconnecter 3NP1, 4-pole, NH00, 160 A, for assembly and installation on mounting plate, flat terminal, cover level 45 mm

| Model | |
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| product designation | Fuse switch disconnecter |
| design of the safety monitoring | Without |
| 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 assembly and installation on mounting plate |
| size of disconnecting link | 00 and 000 |
| size of fuse link | NH000, NH00 |
| let-through current with closed switch maximum | 23 kA |
| mechanical service life (operating cycles) typical | 2 000 |
| I ² t value with closed switch maximum | 223 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 | 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 |
| • 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 |
| • operational current | |
| — 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 |
| — at AC-22 B at 240 V rated value | 160 A |
| — at AC-22 B at 400 V rated value | 160 A |

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| — at AC-22 B at 500 V rated value | 160 A |
| — at AC-22 B at 690 V rated value | 125 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 DC-21 B at 120 V rated value | 160 A |
| — at DC-21 B at 240 V rated value | 160 A |
| — at DC-21 B at 440 V rated value | 160 A |
| — at DC-22 B at 120 V rated value | 160 A |
| — at DC-22 B at 240 V rated value | 160 A |
| — at DC-22 B at 440 V rated value | 125 A |
| — at DC-23 B at 120 V rated value | 100 A |
| — at DC-23 B at 240 V rated value | 100 A |
| — at DC-23 B at 440 V rated value | 63 A |
| let-through current with high-speed activation maximum permissible | 15 kA |
| 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 |
| • 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 | 20 W |
| • for rated value of the current at AC in hot operating state per pole | 17 W |
| • of the fuse per fuse maximum | 12 W |
| 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 |
| 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 | No |
| product component | |
| • undervoltage release | No |
| • undervoltage release with leading contact | No |
| product feature sealable | Yes |
| product extension auxiliary switch | Yes |
| product extension optional locking capability | Yes |
| product extension optional phase failure monitoring | Yes |
| product extension optional fuse monitoring | Yes |
| product extension optional voltage trigger | No |
| product extension optional overvoltage protection | Yes |

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| monitoring | | | |
| Product function | | | |
| product function overvoltage protection monitoring | No | | |
| Short circuit | | | |
| conditional short-circuit current (I_q) | | | |
| • at AC at 240 V with high-speed activation 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 240 V rated value | 120 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 | | | |
| • solid or stranded minimum | 2.5 mm ² | | |
| • solid or stranded maximum | 95 mm ² | | |
| • stranded minimum | 2.5 mm ² | | |
| • stranded maximum | 95 mm ² | | |
| tightening torque with screw-type terminals | | | |
| • minimum | 10 N·m | | |
| • maximum | 12 N·m | | |
| type of connectable conductor cross-sections of the laminated conductors maximum | 24 x 12 mm | | |
| type of connection technology | Flat terminal | | |
| Mechanical Design | | | |
| height | 202 mm | | |
| width | 147.7 mm | | |
| depth | 86.5 mm | | |
| fastening method | mounting plate | | |
| fastening method | | | |
| • floor mounting | No | | |
| • rail mounting | No | | |
| mounting position | horizontal/vertical | | |
| Net Weight | 1.163 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 | Test Certificates | | |
|    | Miscellaneous  | | |
| | Special Test Certificate | | |
| Test Certificates | Maritime application | other | Environment |
| Type Test Certificates/Test Report |  |  | Confirmation  |
| | | | Environmental Confirmations |
| Environment | | | |

