











SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, Molded plastic encapsulation for metric cable gland, rotary operating mechanism, red/yellow

| Model | |
|---|--|
| product brand name | SETRON |
| product designation | Switch disconnecter |
| design of the product | EMERGENCY-STOP switch |
| display version for switch position indicator manual operation | 1 ON - 0 OFF |
| type of switch | Molded-plastic enclosure for metric threaded joint |
| design of the actuating element | Short rotary knob |
| color of the actuating element | red |
| design of handle | rotary operating mechanism, red/yellow |
| type of the driving mechanism motor drive | No |
| General technical data | |
| number of poles | 3 |
| number of poles note | N + PE |
| size of switch disconnecter | 2 |
| mechanical service life (operating cycles) typical | 100 000 |
| electrical endurance (operating cycles) | |
| • at AC-23 A at 690 V | 6 000 |
| operating frequency maximum | 50 1/h |
| degree of pollution | 3 |
| Voltage | |
| insulation voltage rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| operating voltage | |
| • at AC rated value | 690 V |
| operating frequency rated value | |
| • minimum | 50 Hz |
| • maximum | 60 Hz |
| Protection class | |
| protection class IP | IP65 |
| degree of protection NEMA rating | 1, 4X, 12 |
| protection class IP on the front | IP65 |
| Dissipation | |
| power loss [W] for rated value of the current at AC in hot operating state per pole | 1.1 W |
| Main circuit | |
| operational current | |
| • at AC-21 at 690 V rated value | 25 A |
| • at AC-21 A at 240 V rated value | 25 A |
| • at AC-21 A at 400 V rated value | 25 A |
| • at AC-21 A at 440 V rated value | 25 A |

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| <ul style="list-style-type: none"> • at AC-23 A at 400 V rated value | 20 A |
| operating power | |
| <ul style="list-style-type: none"> • at AC-23 A at 240 V rated value | 5 kW |
| <ul style="list-style-type: none"> • at AC-23 A at 400 V rated value | 10 kW |
| <ul style="list-style-type: none"> • at AC-23 A at 440 V rated value | 9.5 kW |
| <ul style="list-style-type: none"> • at AC-23 A at 690 V rated value | 10 kW |
| <ul style="list-style-type: none"> • at AC-3 at 240 V rated value | 4 kW |
| <ul style="list-style-type: none"> • at AC-3 at 400 V rated value | 8 kW |
| <ul style="list-style-type: none"> • at AC-3 at 690 V rated value | 7.5 kW |
| 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 |
| operating voltage of auxiliary contacts at AC maximum | 500 V |
| continuous current of the auxiliary contact rated value | 10 A |
| Suitability | |
| suitability for use | |
| <ul style="list-style-type: none"> • main switch | Yes |
| <ul style="list-style-type: none"> • switch disconnecter | Yes |
| <ul style="list-style-type: none"> • EMERGENCY OFF switch | Yes |
| <ul style="list-style-type: none"> • safety switch | Yes |
| <ul style="list-style-type: none"> • maintenance/repair switch | Yes |
| Product details | |
| product feature can be locked into OFF position | Yes |
| accessories | |
| product extension optional | |
| <ul style="list-style-type: none"> • motor drive | No |
| <ul style="list-style-type: none"> • voltage trigger | No |
| number of connectable NC contacts for auxiliary contacts attachable maximum | 3 |
| number of connectable NO contacts for auxiliary contacts attachable maximum | 5 |
| number of connectable CO contacts for auxiliary contacts attachable maximum | 0 |
| number of bracket locks maximum | 3 |
| hasp thickness of the bracket locks | 4 ... 8 mm |
| Short circuit | |
| conditional short-circuit current with line-side fuse protection | |
| <ul style="list-style-type: none"> • at 690 V by gG fuse rated value | 50 kA |
| let-through current with closed switch | |
| <ul style="list-style-type: none"> • at 240 V for combination switch + gG fuse maximum | 3.5 kA |
| <ul style="list-style-type: none"> • at 440 V for combination switch + gG fuse maximum | 3.5 kA |
| <ul style="list-style-type: none"> • at 690 V for combination switch + gG fuse maximum permissible | 4 kA |
| I ² t value with closed switch | |
| <ul style="list-style-type: none"> • at 240 V for combination switch + gG fuse maximum | 4 kA ² .s |
| <ul style="list-style-type: none"> • at 440 V for combination switch + gG fuse maximum | 4 kA ² .s |
| <ul style="list-style-type: none"> • at 690 V for combination switch + gG fuse maximum | 4 kA ² .s |
| design of the fuse link | |
| <ul style="list-style-type: none"> • for short-circuit protection of the main circuit required | fuse gL/gG: 25 A |
| <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |
| operational current of upstream fuse rated value | 25 A |
| according UL | |
| operational current at AC according to UL 508/UL 60947-4-1 rated value | 25 A |
| operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value | 600 V |
| active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value | 10 |
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value | 15 |
| short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1 | 5 kA |

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|--|--|---|-------|
| continuous current of upstream fuse according to UL rated value | 50 A | | |
| type of fuse according to UL | RK5 | | |
| Connections | | | |
| AWG number as coded connectable conductor cross section solid maximum | | | |
| <ul style="list-style-type: none">•• | 8 14 | | |
| type of connectable conductor cross-sections for copper conductor | | | |
| <ul style="list-style-type: none">• solid• finely stranded with core end processing• stranded | 1x (1,5...16mm²) 1x (1,5...10mm²) 1x (1,5...16mm²) | | |
| type of connectable conductor cross-sections for auxiliary contacts | | | |
| <ul style="list-style-type: none">• solid• finely stranded with core end processing• stranded | lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²) lateral auxiliary switch 2x (0,75 ... 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²) | | |
| type of electrical connection | | | |
| <ul style="list-style-type: none">• for main current circuit• for auxiliary contacts | box terminal connection terminals | | |
| Mechanical Design | | | |
| height | 152 mm | | |
| width | 100 mm | | |
| depth | 117 mm | | |
| type of device | fixed mounting | | |
| fastening method | Complete unit in enclosure | | |
| fastening method | | | |
| <ul style="list-style-type: none">• 4-hole front mounting• front mounting with central attachment• rail mounting | No Yes No | | |
| net weight | 446 g | | |
| Environmental conditions | | | |
| ambient temperature during operation | | | |
| <ul style="list-style-type: none">• minimum• maximum | -25 °C 55 °C | | |
| ambient temperature during storage | | | |
| <ul style="list-style-type: none">• minimum• maximum | -25 °C 55 °C | | |
| Approvals Certificates | | | |
| General Product Approval | | | |
| <div><div> CSA</div><div> EG-Konf.</div><div></div><div> CCC</div><div>Confirmation</div><div> UL</div></div> | | | |
| General Product Approval | Test Certificates | Marine / Shipping | other |
| <div> VDE</div> <div>Miscellaneous</div> <div></div> <div>Miscellaneous</div> <div> LRS</div> <div>Confirmation</div> | | | |
| other | Environment | | |
| Miscellaneous | Environmental Con- firmations | Environmental Con- firmations | |

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=3LD2164-0TB53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2164-0TB53>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2164-0TB53

CAX-Online-Generator

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

Tender specifications

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

