



SETRON, Switch disconnecter 3LD, main switch, 4-pole, I<sub>u</sub>: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, rotary operating mechanism, black, central mounting 22.5 mm of the handle

| Model   |                                   |
|---|-----------------------------------|
| product brand name  | SETRON                            |
| product designation   | Switch disconnecter               |
| design of the product   | Main switch                       |
| display version for switch position indicator manual operation                      | 1 ON - 0 OFF                      |
| type of switch  | front mounted                     |
| design of the actuating element   | Short rotary knob                 |
| color of the actuating element  | black                             |
| design of handle  | rotary operating mechanism, black |
| type of the driving mechanism motor drive   | No                                |
| General technical data  |                                   |
| number of poles   | 4                                 |
| size of switch disconnecter   | 1                                 |
| 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, 3R, 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 | 0.5 W                             |
| Main circuit  |                                   |
| operational current   |                                   |
| • at AC-21 at 690 V rated value   | 16 A                              |
| • at AC-21 A at 240 V rated value   | 16 A                              |
| • at AC-21 A at 400 V rated value   | 16 A                              |
| • at AC-21 A at 440 V rated value   | 16 A                              |
| • at AC-23 A at 400 V rated value   | 16 A                              |

|  |                        |
|--|------------------------|
| operating power  |                        |
| • at AC-23 A at 240 V rated value  | 4 kW                   |
| • at AC-23 A at 400 V rated value  | 8 kW                   |
| • at AC-23 A at 440 V rated value  | 7.5 kW                 |
| • at AC-23 A at 690 V rated value  | 8 kW                   |
| • at AC-3 at 240 V rated value   | 3 kW                   |
| • at AC-3 at 400 V rated value   | 6 kW                   |
| • at AC-3 at 690 V rated value   | 5.5 kW                 |
| <b>Auxiliary circuit</b>   |                        |
| 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                   |
| <b>Suitability</b>   |                        |
| suitability for use  |                        |
| • main switch  | Yes                    |
| • switch disconnecter  | Yes                    |
| • EMERGENCY OFF switch   | No                     |
| • safety switch  | Yes                    |
| • maintenance/repair switch  | Yes                    |
| <b>Product details</b>   |                        |
| product feature can be locked into OFF position                                  | Yes                    |
| <b>accessories</b>   |                        |
| product extension optional   |                        |
| • motor drive  | No                     |
| • voltage trigger  | No                     |
| number of connectable NC contacts for auxiliary contacts attachable maximum      | 1                      |
| number of connectable NO contacts for auxiliary contacts attachable maximum      | 1                      |
| 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             |
| <b>Short circuit</b>   |                        |
| conditional short-circuit current with line-side fuse protection                 |                        |
| • at 690 V by gG fuse rated value  | 50 kA                  |
| let-through current with closed switch   |                        |
| • at 240 V for combination switch + gG fuse maximum                              | 3 kA                   |
| • at 440 V for combination switch + gG fuse maximum                              | 3 kA                   |
| • at 690 V for combination switch + gG fuse maximum permissible                  | 3 kA                   |
| I <sub>2t</sub> value with closed switch   |                        |
| • at 240 V for combination switch + gG fuse maximum                              | 2.5 kA <sup>2</sup> .s |
| • at 440 V for combination switch + gG fuse maximum                              | 2.5 kA <sup>2</sup> .s |
| • at 690 V for combination switch + gG fuse maximum                              | 3 kA <sup>2</sup> .s   |
| design of the fuse link  |                        |
| • for short-circuit protection of the main circuit required                      | fuse gL/gG: 20 A       |
| • for short-circuit protection of the auxiliary switch required                  | fuse gL/gG: 10 A       |
| operational current of upstream fuse rated value                                 | 20 A                   |
| <b>according UL</b>  |                        |
| operational current at AC according to UL 508/UL 60947-4-1 rated value           | 16 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    | 7.5                    |
| active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value    | 10                     |
| short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1    | 5 kA                   |
| continuous current of upstream fuse according to UL rated value                  | 50 A                   |

|   |  |
|---|--|
| type of fuse according to UL  | RK5  |
| <b>Connections</b>  |  |
| AWG number as coded connectable conductor cross section solid maximum |  |
| •   | 10   |
| •   | 18   |
| type of connectable conductor cross-sections for copper conductor     |  |
| • solid   | 1x (1...6mm <sup>2</sup> )                                 |
| • finely stranded with core end processing                            | 1x (1...4mm <sup>2</sup> )                                 |
| • stranded  | 1x (1..6mm <sup>2</sup> )                                  |
| type of connectable conductor cross-sections for auxiliary contacts   |  |
| • solid   | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>   |
| • finely stranded with core end processing                            | 2x (0.75 ... 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup> |
| • stranded  | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>   |
| type of electrical connection   |  |
| • for main current circuit  | box terminal   |
| • for auxiliary contacts  | connection terminals                                       |
| <b>Mechanical Design</b>  |  |
| height  | 84 mm  |
| width   | 67 mm  |
| depth   | 116.5 mm   |
| type of device  | fixed mounting   |
| fastening method  | Built-in unit fixed-mounted version                        |
| fastening method  |  |
| • 4-hole front mounting   | No   |
| • front mounting with central attachment                              | Yes  |
| • rail mounting   | No   |
| net weight  | 220 g  |
| <b>Environmental conditions</b>                                       |  |
| ambient temperature during operation                                  |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| ambient temperature during storage                                    |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| <b>Approvals Certificates</b>   |  |
| <b>General Product Approval</b>                                       |  |



[Confirmation](#)



| General Product Approval          | Marine / Shipping | other   | Environment                                 |
|-----------------------------------|-------------------|---|---|
| <a href="#">Miscellaneous</a><br> |                   | <a href="#">Miscellaneous</a><br><a href="#">Confirmation</a> | <a href="#">Environmental Confirmations</a> |

| Environment                                 |
|---|
| <a href="#">Environmental Confirmations</a> |

| 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=3LD2054-1TL51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-1TL51>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2054-1TL51](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2054-1TL51)

CAX-Online-Generator

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

Tender specifications

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





