



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

| 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                                                                      | Floor mounting with door coupling      |
| 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                                      |
| 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                                                           | Yes                    |
| • 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      | 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             |
| <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 <sup>2</sup> t 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                                                               | lateral auxiliary switch 2x (0,75 ... 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 ... 2,5mm <sup>2</sup> ) |
| • finely stranded with core end processing                            | lateral auxiliary switch 2x (0,75 ... 1,5mm <sup>2</sup> ), 1x 2,5mm <sup>2</sup> ; front auxiliary switch 1x 2,5mm <sup>2</sup>           |
| • stranded                                                            | lateral auxiliary switch 2x (0,75 ... 2,5mm <sup>2</sup> ), 1x 4mm <sup>2</sup> ; front auxiliary switch 1x (0,75 ... 2,5mm <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                                                                 | 429.5 mm                                                                                                                                   |
| type of device                                                        | fixed mounting                                                                                                                             |
| fastening method                                                      | Built-in unit fixed-mounted version                                                                                                        |
| fastening method                                                      |                                                                                                                                            |
| • 4-hole front mounting                                               | Yes                                                                                                                                        |
| • front mounting with central attachment                              | No                                                                                                                                         |
| • rail mounting                                                       | Yes                                                                                                                                        |
| net weight                                                            | 410 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                         |
| <a href="#">Miscellaneous</a> |                   |                               |
|                               |                   | <a href="#">Confirmation</a>  |
|                               |                   | <a href="#">Miscellaneous</a> |

## Environment

[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=3LD2013-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2013-0TK53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2013-0TK53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2013-0TK53)

### CAX-Online-Generator

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

### Tender specifications

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





