



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 3- pole, Iu: 63 A, operating power / at AC-23 A 400 V: 22 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, central mounting 22.5 mm 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   | 3                                      |
| 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 | 4.5 W                                  |
| Main circuit  |  |
| operational current   |  |
| • at AC-21 at 690 V rated value   | 63 A                                   |
| • at AC-21 A at 240 V rated value   | 63 A                                   |
| • at AC-21 A at 400 V rated value   | 63 A                                   |
| • at AC-21 A at 440 V rated value   | 63 A                                   |

|   |                       |
|---|-----------------------|
| <ul style="list-style-type: none"> <li>• at AC-23 A at 400 V rated value</li> </ul>                               | 43 A                  |
| <b>operating power</b>  |                       |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 240 V rated value</li> </ul>                               | 11 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 400 V rated value</li> </ul>                               | 22 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 440 V rated value</li> </ul>                               | 22 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-23 A at 690 V rated value</li> </ul>                               | 19 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-3 at 240 V rated value</li> </ul>                                  | 11 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-3 at 400 V rated value</li> </ul>                                  | 19 kW                 |
| <ul style="list-style-type: none"> <li>• at AC-3 at 690 V rated value</li> </ul>                                  | 15 kW                 |
| <b>Auxiliary circuit</b>  |                       |
| number of CO contacts for auxiliary contacts  | 0                     |
| <b>number of NC contacts for auxiliary contacts</b>   | 0                     |
| <b>number of NO contacts for auxiliary contacts</b>   | 0                     |
| <b>operating voltage of auxiliary contacts at AC maximum</b>  | 500 V                 |
| <b>continuous current of the auxiliary contact rated value</b>  | 10 A                  |
| insulation voltage of the auxiliary switch rated value  | 500 V                 |
| <b>Suitability</b>  |                       |
| <b>suitability for use main switch</b>  | Yes                   |
| <b>suitability for use switch disconnecter</b>  | Yes                   |
| <b>suitability for use EMERGENCY OFF switch</b>   | Yes                   |
| <b>suitability for use safety switch</b>  | Yes                   |
| <b>suitability for use maintenance/repair switch</b>  | Yes                   |
| <b>Product details</b>  |                       |
| product feature can be locked into OFF position   | Yes                   |
| <b>accessories</b>  |                       |
| <b>product extension optional</b>   |                       |
| <ul style="list-style-type: none"> <li>• motor drive</li> </ul>   | No                    |
| <ul style="list-style-type: none"> <li>• voltage trigger</li> </ul>   | No                    |
| <b>number of connectable NC contacts for auxiliary contacts attachable maximum</b>                                | 3                     |
| <b>number of connectable NO contacts for auxiliary contacts attachable maximum</b>                                | 5                     |
| <b>number of connectable CO contacts for auxiliary contacts attachable maximum</b>                                | 0                     |
| <b>number of bracket locks maximum</b>  | 3                     |
| <b>hasp thickness of the bracket locks</b>  | 4 ... 8 mm            |
| <b>Short circuit</b>  |                       |
| <b>conditional short-circuit current with line-side fuse protection</b>   |                       |
| <ul style="list-style-type: none"> <li>• at 690 V by gG fuse rated value</li> </ul>                               | 50 kA                 |
| <b>let-through current with closed switch</b>   |                       |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> </ul>             | 6 kA                  |
| <ul style="list-style-type: none"> <li>• at 440 V for combination switch + gG fuse maximum</li> </ul>             | 6 kA                  |
| <ul style="list-style-type: none"> <li>• at 690 V for combination switch + gG fuse maximum permissible</li> </ul> | 6 kA                  |
| <b>I<sup>2</sup>t value with closed switch</b>  |                       |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> </ul>             | 21 kA <sup>2</sup> .s |
| <ul style="list-style-type: none"> <li>• at 440 V for combination switch + gG fuse maximum</li> </ul>             | 21 kA <sup>2</sup> .s |
| <ul style="list-style-type: none"> <li>• at 690 V for combination switch + gG fuse maximum</li> </ul>             | 21 kA <sup>2</sup> .s |
| <b>design of the fuse link</b>  |                       |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit required</li> </ul>     | fuse gL/gG: 63 A      |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> | fuse gL/gG: 10 A      |
| <b>operational current of upstream fuse rated value</b>   | 63 A                  |
| <b>according UL</b>   |                       |
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>                                     | 63 A                  |
| <b>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</b>                           | 600 V                 |
| <b>active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value</b>                              | 40                    |
| <b>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</b>                              | 50                    |
| <b>short-time withstand current (SCCR) at 600 V according to</b>  | 5 kA                  |

|  |  |
|--|--|
| <b>UL 508/UL 60947-4-1</b>   |  |
| <b>continuous current of upstream fuse according to UL rated value</b>       | 175 A  |
| <b>type of fuse according to UL</b>  | RK5  |
| <b>Connections</b>   |  |
| <b>AWG number as coded connectable conductor cross section solid maximum</b> |  |
| •  | 6  |
| •  | 14   |
| <b>type of connectable conductor cross-sections for copper conductor</b>     |  |
| • solid  | 1x (2,5...35mm <sup>2</sup> )  |
| • finely stranded with core end processing                                   | 1x (2,5...16 mm <sup>2</sup> )   |
| • stranded   | 1x (2,5...35mm <sup>2</sup> )  |
| <b>type of connectable conductor cross-sections for auxiliary contacts</b>   |  |
| • 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> ) |
| <b>type of electrical connection</b>   |  |
| • for main current circuit   | box terminal   |
| • for auxiliary contacts   | connection terminals   |
| <b>Mechanical Design</b>   |  |
| <b>height</b>  | 106 mm   |
| <b>width</b>   | 90 mm  |
| <b>depth</b>   | 468.5 mm   |
| <b>type of device</b>  | fixed mounting   |
| <b>fastening method</b>  | Built-in unit fixed-mounted version  |
| <b>fastening method</b>  |  |
| • 4-hole front mounting  | No   |
| • front mounting with central attachment                                     | Yes  |
| • rail mounting  | Yes  |
| <b>net weight</b>  | 697 g  |
| <b>Environmental conditions</b>  |  |
| <b>ambient temperature during operation</b>                                  |  |
| • minimum  | -25 °C   |
| • maximum  | 55 °C  |
| <b>ambient temperature during storage</b>                                    |  |
| • minimum  | -25 °C   |
| • maximum  | 55 °C  |
| <b>Approvals Certificates</b>  |  |
| <b>General Product Approval</b>  |  |



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## 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=3LD2545-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2545-0TK53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2545-0TK53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2545-0TK53)

### CAX-Online-Generator

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

### Tender specifications

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





