



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, I<sub>u</sub>: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, front-mounted, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

| Model   |  |
|---|--|
| product brand name  | SENTRON                                |
| product designation   | Switch disconnector                    |
| design of the product   | EMERGENCY-STOP 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  | 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 disconnector   | 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, 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 | 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                                   |

|   |                  |
|---|------------------|
| • at AC-23 A at 400 V rated value   | 20 A             |
| <b>operating power</b>  |                  |
| • at AC-23 A at 240 V rated value   | 5 kW             |
| • at AC-23 A at 400 V rated value   | 10 kW            |
| • at AC-23 A at 440 V rated value   | 9.5 kW           |
| • at AC-23 A at 690 V rated value   | 10 kW            |
| • at AC-3 at 240 V rated value  | 4 kW             |
| • at AC-3 at 400 V rated value  | 8 kW             |
| • at AC-3 at 690 V rated value  | 7.5 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 disconnector</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>   |                  |
| • motor drive   | No               |
| • voltage trigger   | 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>      | 3                |
| <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>                 |                  |
| • at 690 V by gG fuse rated value   | 50 kA            |
| <b>let-through current with closed switch</b>   |                  |
| • at 240 V for combination switch + gG fuse maximum                                     | 3.5 kA           |
| • at 440 V for combination switch + gG fuse maximum                                     | 3.5 kA           |
| • at 690 V for combination switch + gG fuse maximum permissible                         | 4 kA             |
| <b>I<sub>2t</sub> value with closed switch</b>  |                  |
| • at 240 V for combination switch + gG fuse maximum                                     | 4 kA2.s          |
| • at 440 V for combination switch + gG fuse maximum                                     | 4 kA2.s          |
| • at 690 V for combination switch + gG fuse maximum                                     | 4 kA2.s          |
| <b>design of the fuse link</b>  |                  |
| • for short-circuit protection of the main circuit required                             | fuse gL/gG: 25 A |
| • for short-circuit protection of the auxiliary switch required                         | fuse gL/gG: 10 A |
| <b>operational current of upstream fuse rated value</b>                                 | 25 A             |
| <b>according UL</b>   |                  |
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>           | 25 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>    | 10               |
| <b>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</b>    | 15               |
| <b>short-time withstand current (SCCR) at 600 V according to</b>                        | 5 kA             |

|   |  |   |
|---|--|---|
| UL 508/UL 60947-4-1   | 50 A   |   |
| continuous current of upstream fuse according to UL rated value                       |  |   |
| type of fuse according to UL  | RK5  |   |
| <b>Connections</b>  |  |   |
| AWG number as coded connectable conductor cross section solid maximum                 |  |   |
| •   | 8  |   |
| •   | 14   |   |
| type of connectable conductor cross-sections for copper conductor                     |  |   |
| • solid   | 1x (1,5...16mm <sup>2</sup> )  |   |
| • finely stranded with core end processing  | 1x (1,5...10mm <sup>2</sup> )  |   |
| • stranded  | 1x (1,5...16mm <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   | 92.5 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   | No   |   |
| net weight  | 187 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>   |  |   |
| General Product Approval  |  |   |
|    | <a href="#">Confirmation</a>   |   |
|    |   |   |
|  |   |   |
| General Product Approval  | Marine / Shipping  | other                                       |
| <a href="#">Miscellaneous</a>   |   | <a href="#">Miscellaneous</a>               |
|    |   |   |
| other   | Environment  |   |
| <a href="#">Confirmation</a>  | <a href="#">Environmental Confirmations</a>  | <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=3LD2103-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2103-0TK53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2103-0TK53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2103-0TK53)

CAx-Online-Generator

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

Tender specifications

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





