



SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 4- pole, Iu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, floor mounting with door coupling, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

| Model   |  |
|---|--|
| product brand name  | SENTRON                                |
| 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   | 4                                      |
| 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, 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 | 1.8 W                                  |
| Main circuit  |  |
| operational current   |  |
| • at AC-21 at 690 V rated value   | 32 A                                   |
| • at AC-21 A at 240 V rated value   | 32 A                                   |
| • at AC-21 A at 400 V rated value   | 32 A                                   |
| • at AC-21 A at 440 V rated value   | 32 A                                   |

|   |                      |
|---|----------------------|
| <ul style="list-style-type: none"> <li>at AC-23 A at 400 V rated value</li> </ul>                               | 22 A                 |
| <b>operating power</b>  |                      |
| <ul style="list-style-type: none"> <li>at AC-23 A at 240 V rated value</li> </ul>                               | 6 kW                 |
| <ul style="list-style-type: none"> <li>at AC-23 A at 400 V rated value</li> </ul>                               | 12 kW                |
| <ul style="list-style-type: none"> <li>at AC-23 A at 440 V rated value</li> </ul>                               | 11.5 kW              |
| <ul style="list-style-type: none"> <li>at AC-23 A at 690 V rated value</li> </ul>                               | 12 kW                |
| <ul style="list-style-type: none"> <li>at AC-3 at 240 V rated value</li> </ul>                                  | 5.5 kW               |
| <ul style="list-style-type: none"> <li>at AC-3 at 400 V rated value</li> </ul>                                  | 10 kW                |
| <ul style="list-style-type: none"> <li>at AC-3 at 690 V rated value</li> </ul>                                  | 9.5 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 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>  |                      |
| <b>product feature can be locked into OFF position</b>  | 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>                              | 2                    |
| <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>   |                      |
| <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>             | 4.5 kA               |
| <ul style="list-style-type: none"> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>             | 4.5 kA               |
| <ul style="list-style-type: none"> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul> | 5 kA                 |
| <b>I<sub>2t</sub> value with closed switch</b>  |                      |
| <ul style="list-style-type: none"> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>             | 9 kA <sup>2</sup> .s |
| <ul style="list-style-type: none"> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>             | 9 kA <sup>2</sup> .s |
| <ul style="list-style-type: none"> <li>at 690 V for combination switch + gG fuse maximum</li> </ul>             | 9 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: 40 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>   | 40 A                 |
| <b>according UL</b>   |                      |
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>                                   | 32 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>                            | 20                   |
| <b>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</b>                            | 20                   |
| <b>short-time withstand current (SCCR) at 600 V according to</b>  | 5 kA                 |

|   |      |
|---|------|
| UL 508/UL 60947-4-1   |      |
| continuous current of upstream fuse according to UL rated value | 80 A |
| type of fuse according to UL                                    | RK5  |

### Connections

|   |  |
|---|--|
| 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   |

### Mechanical Design

|  |                                     |
|--|-------------------------------------|
| height                                   | 83 mm                               |
| width                                    | 67 mm                               |
| depth                                    | 452 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                               | 443 g                               |

### Environmental conditions

|                                      |        |
|--------------------------------------|--------|
| ambient temperature during operation |        |
| • minimum                            | -25 °C |
| • maximum                            | 55 °C  |
| ambient temperature during storage   |        |
| • minimum                            | -25 °C |
| • maximum                            | 55 °C  |

### Approvals Certificates

|                          |                      |
|--------------------------|----------------------|
| General Product Approval | Maritime application |
|--------------------------|----------------------|



Miscellaneous



|                      |       |             |
|----------------------|-------|-------------|
| Maritime application | other | Environment |
|----------------------|-------|-------------|



Confirmation

Environmental Con-  
firmations

Environmental Con-  
firmations

### Further information

Information on the packaging  
<https://support.industry.siemens.com/cs/ww/en/view/109813875>  
 Information for data generation and storage  
<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2213-1TL53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2213-1TL53>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2213-1TL53](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2213-1TL53)

CAx-Online-Generator

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

Tender specifications

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





