



SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 3-pole, Iu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, front-mounted, knob-operated mechanism, red/yellow, 4-hole mounting of the handle

| Model                                                                                                          |                                     |
|----------------------------------------------------------------------------------------------------------------|-------------------------------------|
| product brand name                                                                                             | SENTRON                             |
| product designation                                                                                            | 3LD Switch disconnecter             |
| design of the product                                                                                          | EMERGENCY-STOP switch               |
| display version / for switch position indicator manual operation                                               | 1 ON - 0 OFF                        |
| design of the actuating element                                                                                | selector switch                     |
| design of handle                                                                                               | knob-operated mechanism, red/yellow |
| type of the driving mechanism / motor drive                                                                    | No                                  |
| General technical data                                                                                         |                                     |
| number of poles                                                                                                | 3                                   |
| type of device                                                                                                 | fixed mounting                      |
| type of switch                                                                                                 | front mounted                       |
| size of switch disconnecter                                                                                    | 2                                   |
| mechanical service life (switching cycles) / typical                                                           | 100 000                             |
| electrical endurance (switching cycles)                                                                        |                                     |
| • at AC-23 A / at 690 V                                                                                        | 6 000                               |
| I <sub>2t</sub> value / with closed switch / at 690 V / for combination switch + gG fuse / maximum             | 9 kA <sup>2</sup> .s                |
| let-through I <sub>2t</sub> value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 9 kA <sup>2</sup> .s                |
| operating frequency / maximum                                                                                  | 50 1/h                              |
| Voltage                                                                                                        |                                     |
| insulation voltage / rated value                                                                               | 690 V                               |
| surge voltage resistance / rated value                                                                         | 6 kV                                |
| operational current / at AC / rated value                                                                      | 32 A                                |
| 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                               |
| • per conductor / typical                                                                                      | 1.8 W                               |
| Current                                                                                                        |                                     |
| operational current                                                                                            |                                     |
| • at AC-23 A / at 400 V / rated value                                                                          | 22 A                                |

|                                                                                                                       |         |
|-----------------------------------------------------------------------------------------------------------------------|---------|
| <ul style="list-style-type: none"> <li>• at AC-21 / at 690 V / rated value</li> </ul>                                 | 32 A    |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 240 V / rated value</li> </ul>                               | 32 A    |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 440 V / rated value</li> </ul>                               | 32 A    |
| operational current / of upstream fuse / rated value                                                                  | 40 A    |
| let-through current / with closed switch                                                                              |         |
| <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> | 4.5 kA  |
| <b>Main circuit</b>                                                                                                   |         |
| operating power                                                                                                       |         |
| <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>                               | 11.5 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>                               | 11.5 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>                                  | 9.5 kW  |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 690 V / rated value</li> </ul>                                  | 9.5 kW  |
| operational current / rated value                                                                                     | 32 A    |
| <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    |
| insulation voltage / of the auxiliary switch / rated value                                                            | 500 V   |
| <b>Suitability</b>                                                                                                    |         |
| suitability for use                                                                                                   |         |
| <ul style="list-style-type: none"> <li>• main switch</li> </ul>                                                       | Yes     |
| <ul style="list-style-type: none"> <li>• switch disconnect</li> </ul>                                                 | Yes     |
| <ul style="list-style-type: none"> <li>• EMERGENCY OFF switch</li> </ul>                                              | Yes     |
| <ul style="list-style-type: none"> <li>• safety switch</li> </ul>                                                     | Yes     |
| <ul style="list-style-type: none"> <li>• maintenance/repair switch</li> </ul>                                         | Yes     |
| <b>Appearance</b>                                                                                                     |         |
| color / of the actuating element                                                                                      | red     |
| <b>Product details</b>                                                                                                |         |
| <ul style="list-style-type: none"> <li>• product function / can be locked into OFF position</li> </ul>                | Yes     |
| number of bracket locks / maximum                                                                                     | 2       |
| hasp thickness / of the bracket locks / minimum                                                                       | 4 mm    |
| hasp thickness / of the bracket locks / maximum                                                                       | 6 mm    |
| product extension / optional                                                                                          |         |
| <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>Short circuit</b>                                                                                                  |         |
| conditional short-circuit current / with line-side fuse protection                                                    |         |
| <ul style="list-style-type: none"> <li>• at 690 V / by gG fuse / rated value</li> </ul>                               | 50 kA   |
| <b>according UL</b>                                                                                                   |         |
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value                                          | 32 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                                 | 20      |
| active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value                                 | 20      |
| 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 /                                                             | 80 A    |

|                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| rated value                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| type of fuse / according to UL                                                                                                                                                                                 | RK5                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Number</b>                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum                                                                                                                              | 3                                                                                                                                                                                                                                                                                                                                                                                                                            |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum                                                                                                                              | 3                                                                                                                                                                                                                                                                                                                                                                                                                            |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum                                                                                                                              | 0                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Connections</b>                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| AWG number / as coded connectable conductor cross section / solid <ul style="list-style-type: none"> <li>maximum</li> <li>minimum</li> </ul>                                                                   | 8<br>14                                                                                                                                                                                                                                                                                                                                                                                                                      |
| type of connectable conductor cross-sections / for copper conductor <ul style="list-style-type: none"> <li>solid</li> <li>finely stranded / with core end processing</li> <li>stranded</li> </ul>              | 1x (1,5...16mm <sup>2</sup> )<br>1x (1,5...10mm <sup>2</sup> )<br>1x (1,5...16mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                              |
| type of connectable conductor cross-sections / for auxiliary contacts <ul style="list-style-type: none"> <li>solid</li> <li>finely stranded / with core end processing</li> <li>stranded</li> </ul>            | 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> )<br>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><br>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 <ul style="list-style-type: none"> <li>for main current circuit</li> <li>for auxiliary contacts</li> </ul>                                                                       | box terminal<br>connection terminals                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Requirements</b>                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| design of the fuse link <ul style="list-style-type: none"> <li>for short-circuit protection of the main circuit / required</li> <li>for short-circuit protection of the auxiliary switch / required</li> </ul> | fuse gL/gG: 40 A<br>fuse gL/gG: 10 A                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Mechanical Design</b>                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| height                                                                                                                                                                                                         | 71 mm                                                                                                                                                                                                                                                                                                                                                                                                                        |
| width                                                                                                                                                                                                          | 49 mm                                                                                                                                                                                                                                                                                                                                                                                                                        |
| depth                                                                                                                                                                                                          | 85.5 mm                                                                                                                                                                                                                                                                                                                                                                                                                      |
| fastening method                                                                                                                                                                                               | Built-in unit fixed-mounted version                                                                                                                                                                                                                                                                                                                                                                                          |
| fastening method <ul style="list-style-type: none"> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul>                                                | Yes<br>No<br>No                                                                                                                                                                                                                                                                                                                                                                                                              |
| net weight                                                                                                                                                                                                     | 178 g                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Environmental conditions</b>                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ambient temperature / during operation <ul style="list-style-type: none"> <li>minimum</li> <li>maximum</li> </ul>                                                                                              | -25 °C<br>55 °C                                                                                                                                                                                                                                                                                                                                                                                                              |
| ambient temperature / during storage / minimum                                                                                                                                                                 | -25 °C                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Certificates</b>                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                              |
| reference code <ul style="list-style-type: none"> <li>acc. to DIN EN 61346-2</li> <li>acc. to IEC 81346-2</li> </ul>                                                                                           | S<br>SF                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>General Product Approval</b>                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                              |



[Miscellaneous](#)



| Declaration of Conformity | Test Certificates | Marine / Shipping | other |
|---------------------------|-------------------|-------------------|-------|
|---------------------------|-------------------|-------------------|-------|



EG-Konf.

[Special Test Certificate](#)



LRS



PRS



DNV-GL

[Environmental Confirmations](#)

#### Further information

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=3LD2222-0TK13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2222-0TK13>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2222-0TK13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2222-0TK13)

Tender specifications

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





