



SENTRON, Molded case switch 3LD5 UL, Emergency switching-off, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 100A, SCCR 65kA at 480VAC, Operating power at 480VAC 3-phase: 60hp, IEC: 100A, Operating power at AC-23A at 400V: 45kW, floor mounting with door coupling rotary operating mechanism, defeatable, emergency switching-off, 4-hole mounting of the handle, without tolerance compensation, incl. terminal covers for the infeed side

| Model   |  |
|---|--|
| product brand name  | SENTRON                                  |
| product designation   | 3LD UL 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   | door-coupling rotary operating mechanism |
| design of handle  | rotary operating 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  | Floor mounting with door coupling        |
| size of switch disconnecter   | 3  |
| mechanical service life (switching cycles) / typical  | 100 000                                  |
| electrical endurance (switching cycles)   |  |
| • at AC-23 A / at 690 V   | 6 000                                    |
| I <sup>2</sup> t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum             | 223 kA <sup>2</sup> .s                   |
| let-through I <sup>2</sup> t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 223 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                                     |
| 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                                    | 36 W                                     |
| • per conductor / typical   | 36 W                                     |
| Current   |  |
| operational current   |  |
| • at 40 °C / rated value  | 100 A                                    |
| • at 45 °C / rated value  | 100 A                                    |
| • at 50 °C / rated value  | 100 A                                    |
| • at 55 °C / rated value  | 100 A                                    |

|   |                                 |
|---|---------------------------------|
| <ul style="list-style-type: none"> <li>• at AC / rated value</li> </ul>   | 100 A                           |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / rated value</li> </ul>                               | 100 A                           |
| <ul style="list-style-type: none"> <li>• at AC-21 / at 690 V / rated value</li> </ul>                                 | 100 A                           |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 240 V / rated value</li> </ul>                               | 100 A                           |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 440 V / rated value</li> </ul>                               | 100 A                           |
| operational current / of upstream fuse / rated value  | 125 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>             | 16 kA                           |
| <ul style="list-style-type: none"> <li>• at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul> | 15 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>                               | 30 kW                           |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 440 V / rated value</li> </ul>                               | 45 kW                           |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / rated value</li> </ul>                               | 37 kW                           |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 240 V / rated value</li> </ul>                                  | 30 kW                           |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>                                  | 45 kW                           |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 690 V / rated value</li> </ul>                                  | 30 kW                           |
| operational current / rated value   | 100 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 disconnector</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>  |                                 |
| product feature   |                                 |
| <ul style="list-style-type: none"> <li>• can be locked into OFF position</li> </ul>                                   | Yes                             |
| number of bracket locks / maximum   | 3                               |
| hasp thickness / of the bracket locks / minimum   | 5 mm                            |
| hasp thickness / of the bracket locks / maximum   | 7.5 mm                          |
| special product feature   | defeatable door-coupling handle |
| 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 440 V / by gG fuse / rated value</li> </ul>                               | 50 kA                           |
| <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 489/UL 60947-4-1 / rated value  | 100 A                           |
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value  | 100 A                           |
| operating voltage / at AC / at 50/60 Hz / according to UL 489 / rated value   | 480 V                           |
| operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value                              | 480 V                           |
| active power [hp] / at AC / at 480 V / according to UL  | 60                              |

|   |  |
|---|--|
| 508/UL 60947-4-1 / rated value  |  |
| short-time withstand current (SCCR) / at 480 V / according to UL 508/UL 60947-4-1 and UL 489        | 65 kA  |
| continuous current / of upstream fuse / according to UL / rated value                               | 100 A  |
| type of fuse / according to UL  | Class J  |
| <b>Number</b>   |  |
| 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  |
| <b>Connections</b>  |  |
| AWG number / as coded connectable conductor cross section / solid                                   |  |
| • minimum   | 3  |
| • maximum   | 4/0  |
| AWG number / as coded connectable conductor cross section / solid / according to UL 489             |  |
| • minimum   | 3  |
| AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16 |  |
| • minimum   | 3  |
| type of connectable conductor cross-sections / for copper conductor                                 |  |
| • solid   | 1x (16 ...185mm <sup>2</sup> )   |
| • finely stranded / with core end processing  | 1x (16...150mm <sup>2</sup> )  |
| • stranded  | 1x (16...185mm <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>Requirements</b>   |  |
| design of the fuse link   |  |
| • for short-circuit protection of the main circuit / required                                       | Fuse gG: 125 A   |
| • for short-circuit protection of the auxiliary switch / required                                   | fuse gL/gG: 10 A   |
| <b>Mechanical Design</b>  |  |
| height  | 178 mm   |
| width   | 113 mm   |
| depth   | 158 mm   |
| 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  | 1 900 g  |
| <b>Environmental conditions</b>   |  |
| ambient temperature / during operation  |  |
| • minimum   | -25 °C   |
| • maximum   | 55 °C  |
| ambient temperature / during storage / minimum  | -25 °C   |
| <b>General Product Approval</b>   |  |
| <b>Declaration of Conformity</b>  |  |



[Confirmation](#)



EG-Konf.

other

[Miscellaneous](#)

### 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?mfb=3LD5410-0TK13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5410-0TK13>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3LD5410-0TK13](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD5410-0TK13)

CAX-Online-Generator

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

Tender specifications

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



