



SENTRON, Molded case switch 3LD5 UL, Main switch, 4-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 150A, SCCR 50kA at 480VAC, Operating power at 480VAC 3-phase: 100hp, IEC: 160A, Operating power at AC-23A at 400V: 75kW, floor mounting with direct handle, black, incl. terminal covers for the infeed side

| Model   |                                  |
|---|----------------------------------|
| product brand name  | SENTRON                          |
| product designation   | 3LD UL switch disconnecter       |
| design of the product   | Main 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, black   |
| type of the driving mechanism / motor drive   | No                               |
| General technical data  |                                  |
| number of poles   | 4                                |
| type of device  | fixed mounting                   |
| type of switch  | Floor mounting with direct drive |
| 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   | IP00                             |
| protection class IP / on the front  | IP00                             |
| 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  | 160 A                            |
| • at 45 °C / rated value  | 160 A                            |
| • at 50 °C / rated value  | 160 A                            |
| • at 55 °C / rated value  | 160 A                            |
| • at AC / rated value   | 160 A                            |

|   |        |
|---|--------|
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / rated value</li> </ul>                               | 160 A  |
| <ul style="list-style-type: none"> <li>• at AC-21 / at 690 V / rated value</li> </ul>                                 | 160 A  |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 240 V / rated value</li> </ul>                               | 160 A  |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 440 V / rated value</li> </ul>                               | 160 A  |
| operational current / of upstream fuse / rated value  | 160 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>                               | 45 kW  |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 440 V / rated value</li> </ul>                               | 75 kW  |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / rated value</li> </ul>                               | 55 kW  |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 240 V / rated value</li> </ul>                                  | 45 kW  |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>                                  | 75 kW  |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 690 V / rated value</li> </ul>                                  | 45 kW  |
| operational current / rated value   | 160 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 disconnecter</li> </ul>   | Yes    |
| <ul style="list-style-type: none"> <li>• EMERGENCY OFF switch</li> </ul>  | No     |
| <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  | black  |
| <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 |
| 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>                               | 30 kA  |
| <b>according UL</b>   |        |
| operational current / at AC / according to UL 489/UL 60947-4-1 / rated value  | 150 A  |
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value  | 150 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 508/UL 60947-4-1 / rated value                                 | 100    |
| short-time withstand current (SCCR) / at 480 V / according  | 50 kA  |

|   |  |
|---|--|
| to UL 508/UL 60947-4-1 and UL 489   |  |
| continuous current / of upstream fuse / according to UL / rated value                               | 150 A  |
| type of fuse / according to UL  | Class J  |
| <b>Number</b>   |  |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum                   | 1  |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum                   | 2  |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum                   | 0  |
| <b>Connections</b>  |  |
| AWG number / as coded connectable conductor cross section / solid                                   |  |
| • minimum   | 1  |
| • maximum   | 4/0  |
| AWG number / as coded connectable conductor cross section / solid / according to UL 489             |  |
| • minimum   | 1  |
| 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   | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>   |
| • finely stranded / with core end processing  | 2x (0.75 ... 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup> |
| • stranded  | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <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: 160 A   |
| • for short-circuit protection of the auxiliary switch / required                                   | fuse gL/gG: 10 A   |
| <b>Mechanical Design</b>  |  |
| height  | 178 mm   |
| width   | 151 mm   |
| depth   | 158 mm   |
| fastening method  | Built-in unit fixed-mounted version                        |
| fastening method  |  |
| • 4-hole front mounting   | No   |
| • front mounting with central attachment  | No   |
| • rail mounting   | No   |
| net weight  | 2 150 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](#)



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=3LD5800-0TL11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD5800-0TL11>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3LD5800-0TL11](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD5800-0TL11)

**CAX-Online-Generator**

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

**Tender specifications**

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



