



Load disconnecter 3LD3, Iu 63 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 22.0 kW Installation in distribution boards, Basic switch without Knob-operated mechanism

| Model  |                         |
|--|-------------------------|
| product brand name   | SENTRON                 |
| product designation  | 3LD Switch disconnecter |
| design of the product  | Switch                  |
| display version / for switch position indicator manual operation   | 1 ON - 0 OFF            |
| design of the actuating element  | Without handle          |
| design of handle   | without                 |
| type of the driving mechanism / motor drive  | No                      |
| General technical data   |                         |
| number of poles  | 4                       |
| number of poles / note   | 4                       |
| type of device   | fixed mounting          |
| type of switch   | DIN-rail mounting       |
| 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             | 21 kA <sup>2</sup> .s   |
| let-through I <sub>2t</sub> value / with closed switch / at 440 V / for combination switch + gG fuse / maximum | 21 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  | IP20                    |
| protection class IP / on the front   | IP20                    |
| Dissipation  |                         |
| power loss [W]   |                         |
| • for rated value of the current / at AC / in hot operating state / per pole                                   | 4.5 W                   |
| • per conductor / typical  | 5 W                     |
| Current  |                         |
| operational current  |                         |
| • at 40 °C / rated value   | 63 A                    |
| • at 45 °C / rated value   | 63 A                    |
| • at 50 °C / rated value   | 63 A                    |
| • at 55 °C / rated value   | 63 A                    |
| • at AC / rated value  | 63 A                    |

|   |              |
|---|--------------|
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / rated value</li> </ul>                               | 43 A         |
| <ul style="list-style-type: none"> <li>• at AC-21 / at 690 V / rated value</li> </ul>                                 | 63 A         |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 240 V / rated value</li> </ul>                               | 63 A         |
| <ul style="list-style-type: none"> <li>• at AC-21 A / at 440 V / rated value</li> </ul>                               | 63 A         |
| operational current / of upstream fuse / rated value  | 63 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>             | 6 kA         |
| <ul style="list-style-type: none"> <li>• at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul> | 6 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>                               | 11 kW        |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 400 V / rated value</li> </ul>                               | 22 kW        |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 440 V / rated value</li> </ul>                               | 22 kW        |
| <ul style="list-style-type: none"> <li>• at AC-23 A / at 690 V / rated value</li> </ul>                               | 19 kW        |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 240 V / rated value</li> </ul>                                  | 11 kW        |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 400 V / rated value</li> </ul>                                  | 19 kW        |
| <ul style="list-style-type: none"> <li>• at AC-3 / at 690 V / rated value</li> </ul>                                  | 15 kW        |
| operational current / rated value   | 63 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>  | 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>Product details</b>  |              |
| product feature   |              |
| <ul style="list-style-type: none"> <li>• can be locked into OFF position</li> </ul>                                   | No           |
| number of bracket locks / maximum   | 2            |
| hasp thickness / of the bracket locks / minimum   | 4 mm         |
| hasp thickness / of the bracket locks / maximum   | 6 mm         |
| special product feature   | Basic Switch |
| 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>                               | 10 kA        |
| <ul style="list-style-type: none"> <li>• at 690 V / by gG fuse / rated value</li> </ul>                               | 6 kA         |
| <b>according UL</b>   |              |
| operational current / at AC / according to UL 508/UL 60947-4-1 / rated value  | 63 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                                 | 25           |
| active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value                                 | 30           |
| 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 /   | 50 A         |

|   |  |
|---|--|
| rated value   |  |
| type of fuse / according to UL  | RK5  |
| <b>Number</b>   |  |
| number of connectable NC contacts / for auxiliary contacts / attachable / maximum | 2  |
| number of connectable NO contacts / for auxiliary contacts / attachable / maximum | 4  |
| number of connectable CO contacts / for auxiliary contacts / attachable / maximum | 0  |
| <b>Connections</b>  |  |
| AWG number / as coded connectable conductor cross section / solid                 |  |
| • maximum   | 6  |
| • minimum   | 14   |
| type of connectable conductor cross-sections / for copper conductor               |  |
| • solid   | 1x (2.5 to 16 mm <sup>2</sup> )                            |
| • finely stranded / with core end processing                                      | 1x (2.5...16 mm <sup>2</sup> )                             |
| • stranded  | 1x (2.5 to 16 mm <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  | Box terminals  |
| <b>Requirements</b>   |  |
| design of the fuse link   |  |
| • for short-circuit protection of the main circuit / required                     | fuse gL/gG: 63 A   |
| • for short-circuit protection of the auxiliary switch / required                 | fuse gL/gG: 10 A   |
| <b>Mechanical Design</b>  |  |
| height  | 60 mm  |
| width   | 49 mm  |
| depth   | 64 mm  |
| fastening method  | Built-in unit fixed-mounted version                        |
| fastening method  |  |
| • 4-hole front mounting   | No   |
| • front mounting with central attachment  | No   |
| • rail mounting   | Yes  |
| net weight  | 200 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=3LD3410-0TL05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3410-0TL05>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3LD3410-0TL05](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD3410-0TL05)

CAx-Online-Generator

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

Tender specifications

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



