



Load disconnecter 3LD3, Iu 40 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400 V 18.5 kW Installation in distribution boards, Basic switch without Knob-operated mechanism

| Model   |                     |
|---|---------------------|
| product brand name  | SENTRON             |
| product designation   | Switch disconnecter |
| design of the product   | Switch              |
| display version for switch position indicator manual operation                      | 1 ON - 0 OFF        |
| type of switch  | DIN-rail mounting   |
| design of the actuating element   | Without handle      |
| design of handle  | without             |
| General technical data  |                     |
| number of poles   | 4                   |
| number of poles note  | 4                   |
| 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   | 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 | 2.5 W               |
| Main circuit  |                     |
| operational current   |                     |
| • at AC-21 at 690 V rated value   | 40 A                |
| • at AC-21 A at 240 V rated value   | 40 A                |
| • at AC-21 A at 400 V rated value   | 40 A                |
| • at AC-21 A at 440 V rated value   | 40 A                |
| • at AC-23 A at 400 V rated value   | 36 A                |
| operating power   |                     |

|  |   |
|--|---|
| <ul style="list-style-type: none"> <li>• at AC-23 A at 240 V rated value</li> <li>• at AC-23 A at 400 V rated value</li> <li>• at AC-23 A at 440 V rated value</li> <li>• at AC-23 A at 690 V rated value</li> <li>• at AC-3 at 240 V rated value</li> <li>• at AC-3 at 400 V rated value</li> <li>• at AC-3 at 690 V rated value</li> </ul> | 7.5 kW<br>19 kW<br>15 kW<br>15 kW<br>7.5 kW<br>12 kW<br>11.5 kW         |
| <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 main switch  | Yes   |
| suitability for use switch disconnector  | Yes   |
| suitability for use EMERGENCY OFF switch   | Yes   |
| suitability for use safety switch  | Yes   |
| suitability for use maintenance/repair switch  | Yes   |
| <b>Product details</b>   |   |
| special product feature  | Basic Switch  |
| product feature can be locked into OFF position  | No  |
| <b>Accessories</b>   |   |
| product extension optional   |   |
| <ul style="list-style-type: none"> <li>• motor drive</li> <li>• voltage trigger</li> </ul>   | No<br>No  |
| 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>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> <li>• at 690 V by gG fuse rated value</li> </ul>   | 10 kA<br>6 kA   |
| let-through current with closed switch   |   |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> <li>• at 440 V for combination switch + gG fuse maximum</li> <li>• at 690 V for combination switch + gG fuse maximum permissible</li> </ul>  | 5 kA<br>5 kA<br>5 kA  |
| I <sup>2</sup> t value with closed switch  |   |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> <li>• at 440 V for combination switch + gG fuse maximum</li> <li>• at 690 V for combination switch + gG fuse maximum</li> </ul>  | 15 kA <sup>2</sup> -s<br>15 kA <sup>2</sup> -s<br>15 kA <sup>2</sup> -s |
| 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                                    |
| operational current of upstream fuse rated value   | 40 A  |
| <b>according UL</b>  |   |
| operational current at AC according to UL 508/UL 60947-4-1 rated value   | 40 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  | 5 kA  |

|  |      |
|--|------|
| <b>UL 508/UL 60947-4-1</b>   |      |
| <b>continuous current of upstream fuse according to UL rated value</b> | 50 A |
| <b>type of fuse according to UL</b>                                    | RK5  |

### Connections

|  |  |
|--|--|
| <b>AWG number as coded connectable conductor cross section solid maximum</b> |  |
| •  | 6  |
| •  | 14   |
| <b>type of connectable conductor cross-sections for copper conductor</b>     |  |
| • 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> )                            |
| <b>type of connectable conductor cross-sections for auxiliary contacts</b>   |  |
| • 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>   |
| <b>type of electrical connection</b>   |  |
| • for main current circuit   | box terminal   |
| • for auxiliary contacts   | Box terminals  |

### Mechanical Design

|  |                                     |
|--|-------------------------------------|
| <b>height</b>                            | 60 mm                               |
| <b>width</b>                             | 49 mm                               |
| <b>depth</b>                             | 64 mm                               |
| <b>type of device</b>                    | fixed mounting                      |
| <b>fastening method</b>                  | Built-in unit fixed-mounted version |
| <b>fastening method</b>                  |                                     |
| • 4-hole front mounting                  | No                                  |
| • front mounting with central attachment | No                                  |
| • rail mounting                          | Yes                                 |
| <b>Net Weight</b>                        | 184 g                               |

### Environmental conditions

|   |        |
|---|--------|
| <b>ambient temperature during operation</b> |        |
| • minimum                                   | -25 °C |
| • maximum                                   | 55 °C  |
| <b>ambient temperature during storage</b>   |        |
| • minimum                                   | -25 °C |
| • maximum                                   | 55 °C  |

### Approvals Certificates

|                    |                                 |
|--------------------|---------------------------------|
| <b>Environment</b> | <b>General Product Approval</b> |
|--------------------|---------------------------------|

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|                                 |              |
|---------------------------------|--------------|
| <b>General Product Approval</b> | <b>other</b> |
|---------------------------------|--------------|



[Confirmation](#)



### 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=3LD3310-0TL05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3310-0TL05>

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

[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD3310-0TL05](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3310-0TL05)

CAx-Online-Generator

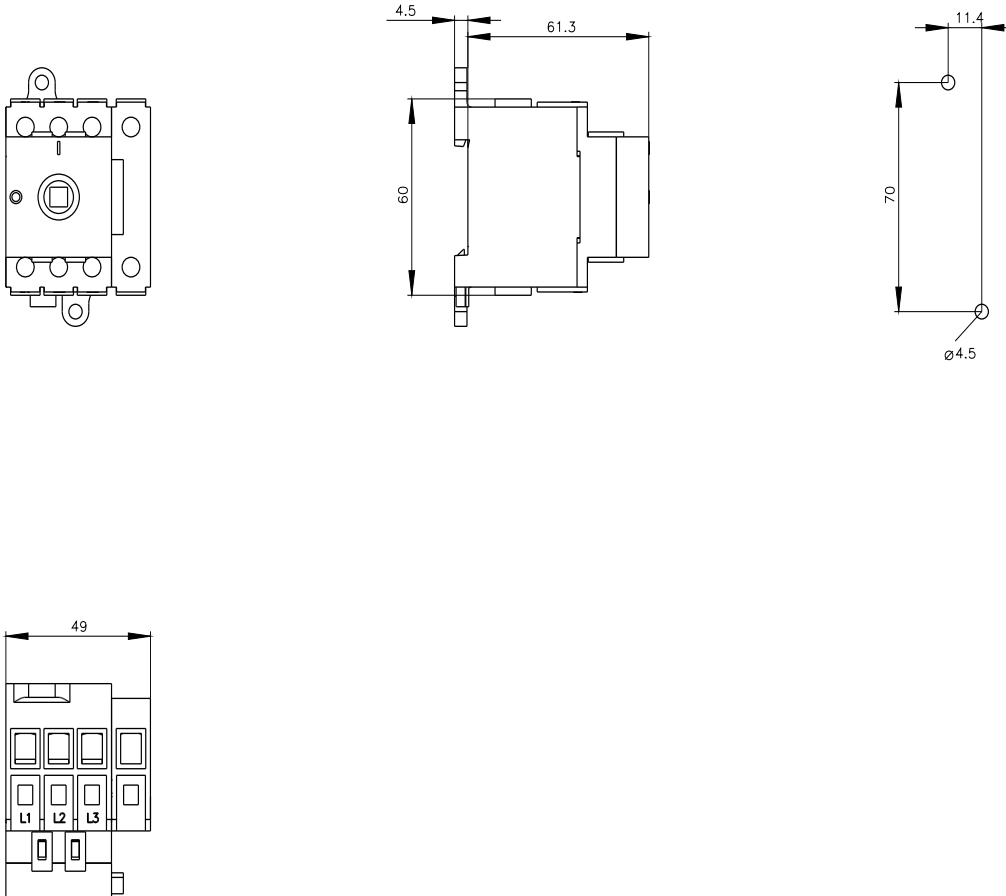
<https://www.siemens.com/cax>

Tender specifications

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

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)



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