



Load disconnecter 3LD3, Iu 40 A Main switch 3-pole Rated operating capacity at AC-23 A at 400 V 18.5 kW Installation in distribution boards, Basic switch with selector knob black

| Model   |                                |
|---|--------------------------------|
| product brand name  | SENTRON                        |
| product designation   | Switch disconnecter            |
| design of the product   | Main switch                    |
| display version for switch position indicator manual operation                      | 1 ON - 0 OFF                   |
| type of switch  | DIN-rail mounting              |
| design of the actuating element   | selector switch                |
| color of the actuating element  | black                          |
| design of handle  | knob-operated mechanism, black |
| General technical data  |                                |
| number of poles   | 3                              |
| number of poles note  | 3                              |
| 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   | IP40                           |
| protection class IP on the front  | IP40                           |
| 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   |                                |

|                                   |         |
|-----------------------------------|---------|
| • at AC-23 A at 240 V rated value | 7.5 kW  |
| • at AC-23 A at 400 V rated value | 19 kW   |
| • at AC-23 A at 440 V rated value | 15 kW   |
| • at AC-23 A at 690 V rated value | 15 kW   |
| • at AC-3 at 240 V rated value    | 7.5 kW  |
| • at AC-3 at 400 V rated value    | 12 kW   |
| • at AC-3 at 690 V rated value    | 11.5 kW |

#### Auxiliary circuit

|  |       |
|--|-------|
| number of CO contacts for auxiliary contacts                   | 0     |
| <b>number of NC contacts for auxiliary contacts</b>            | 0     |
| <b>number of NO contacts for auxiliary contacts</b>            | 0     |
| <b>operating voltage of auxiliary contacts at AC maximum</b>   | 500 V |
| <b>continuous current of the auxiliary contact rated value</b> | 10 A  |
| insulation voltage of the auxiliary switch rated value         | 500 V |

#### Suitability

|  |     |
|--|-----|
| <b>suitability for use main switch</b>               | Yes |
| <b>suitability for use switch disconnecter</b>       | Yes |
| <b>suitability for use EMERGENCY OFF switch</b>      | No  |
| <b>suitability for use safety switch</b>             | Yes |
| <b>suitability for use maintenance/repair switch</b> | Yes |

#### Product details

|  |                                |
|--|--------------------------------|
| <b>special product feature</b>                         | Can be locked in zero position |
| <b>product feature can be locked into OFF position</b> | Yes                            |

#### Accessories

|  |            |
|--|------------|
| <b>product extension optional</b>  |            |
| • motor drive  | No         |
| • voltage trigger  | No         |
| <b>number of connectable NC contacts for auxiliary contacts attachable maximum</b> | 2          |
| <b>number of connectable NO contacts for auxiliary contacts attachable maximum</b> | 4          |
| <b>number of connectable CO contacts for auxiliary contacts attachable maximum</b> | 0          |
| <b>number of bracket locks maximum</b>   | 2          |
| <b>hasp thickness of the bracket locks</b>   | 4 ... 6 mm |

#### Short circuit

|   |                       |
|---|-----------------------|
| <b>conditional short-circuit current with line-side fuse protection</b> |                       |
| • at 440 V by gG fuse rated value                                       | 10 kA                 |
| • at 690 V by gG fuse rated value                                       | 6 kA                  |
| <b>let-through current with closed switch</b>                           |                       |
| • at 240 V for combination switch + gG fuse maximum                     | 5 kA                  |
| • at 440 V for combination switch + gG fuse maximum                     | 5 kA                  |
| • at 690 V for combination switch + gG fuse maximum permissible         | 5 kA                  |
| <b>I<sub>2t</sub> value with closed switch</b>                          |                       |
| • at 240 V for combination switch + gG fuse maximum                     | 15 kA <sup>2</sup> .s |
| • at 440 V for combination switch + gG fuse maximum                     | 15 kA <sup>2</sup> .s |
| • at 690 V for combination switch + gG fuse maximum                     | 15 kA <sup>2</sup> .s |
| <b>design of the fuse link</b>  |                       |
| • for short-circuit protection of the main circuit required             | fuse gL/gG: 40 A      |
| • for short-circuit protection of the auxiliary switch required         | fuse gL/gG: 10 A      |
| <b>operational current of upstream fuse rated value</b>                 | 40 A                  |

#### according UL

|   |       |
|---|-------|
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>           | 40 A  |
| <b>operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value</b> | 600 V |
| <b>active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value</b>    | 20    |
| <b>active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value</b>    | 20    |
| <b>short-time withstand current (SCCR) at 600 V according to</b>                        | 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>                             | 36 mm                               |
| <b>depth</b>                             | 77 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>                        | 153 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>General Product Approval</b> | other |
|---------------------------------|-------|



[Confirmation](#)

|              |                    |
|--------------|--------------------|
| <b>other</b> | <b>Environment</b> |
|--------------|--------------------|



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### 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=3LD3330-0TK11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3330-0TK11>

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

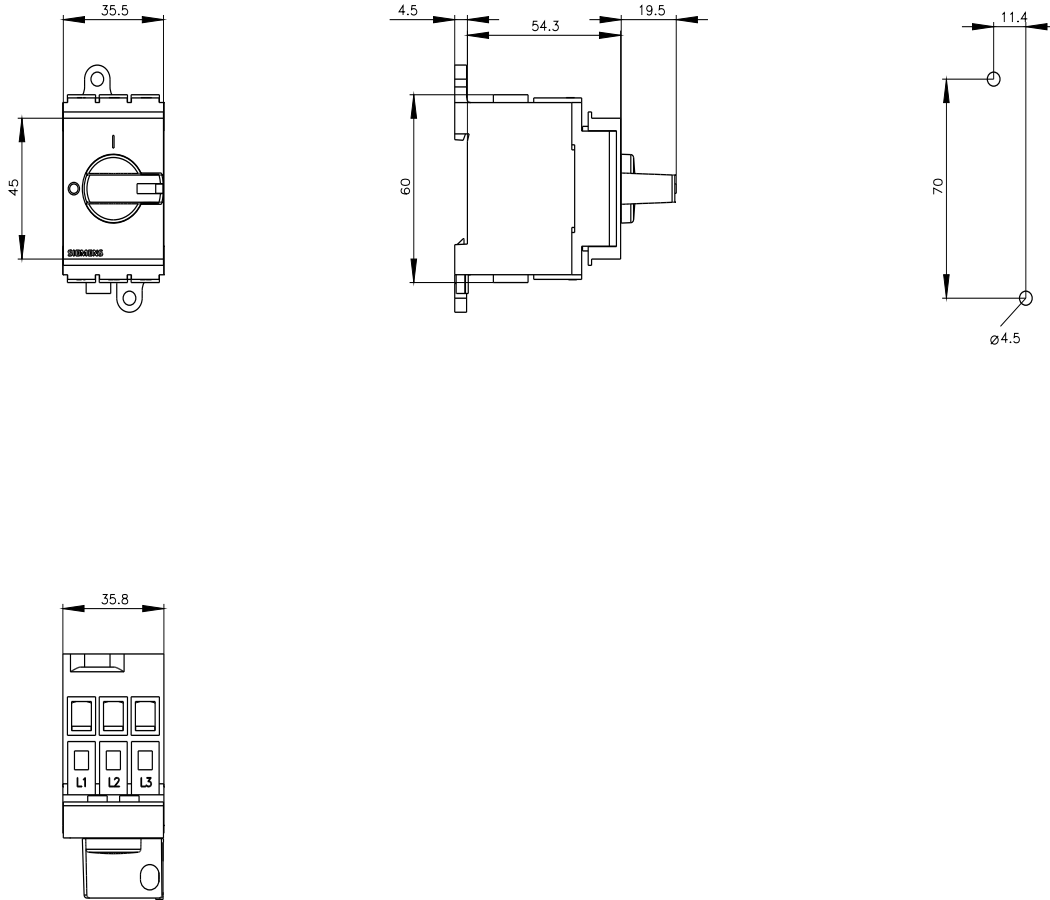
[https://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD3330-0TK11](https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3330-0TK11)

CAX-Online-Generator

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

Tender specifications

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



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