

Load disconnecter 3LD3, Iu 63 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 22.0 kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive black 66x66 mm



| Model  |                                   |
|--|-----------------------------------|
| Product brand name   | SENTRON                           |
| Product designation  | 3LD Switch disconnecter           |
| Design of the product  | Main switch                       |
| Display version / for switch position indicator manual operation | 1 ON - 0 OFF                      |
| Design of the operating mechanism                                | Short rotary knob                 |
| Design of handle   | rotary operating mechanism, black |
| 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   | front mounted                     |
| 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    |
| 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 | 4.5 W   |
| Electricity   |         |
| Current / at AC / rated value   | 63 A    |
| Continuous current / rated value  | 63 A    |
| Continuous current / of upstream fuse / rated value   | 63 A    |
| Short-time current resistance (I <sub>cw</sub> ) / at 690 V / limited to 1 s / rated value  | 1 000 A |
| Main circuit  |         |
| Operating frequency   |         |
| • initial value   | 50 Hz   |
| • Full-scale value  | 60 Hz   |
| Operating power   |         |
| • at AC-23 A / at 400 V / rated value   | 22 kW   |
| • at AC-23 A / at 690 V / rated value   | 18.5 kW |
| • at AC-3 / at 400 V / rated value  | 18.5 kW |
| • at AC-3 / at 690 V / rated value  | 15 kW   |
| Operating voltage   |         |
| • at AC / at 50/60 Hz / rated value   | 690 V   |
| Auxiliary circuit   |         |
| 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   |
| Suitability   |         |
| <b>Suitability for use</b>  |         |
| • Main switch   | Yes     |
| • switch disconnecter   | Yes     |
| • EMERGENCY OFF switch  | No      |
| • safety switch   | Yes     |
| • maintenance/repair switch   | Yes     |
| Product details   |         |

|   |      |
|---|------|
| Product feature / interlock                 | Yes  |
| Number of bracket locks / maximum           | 3    |
| Hasp thickness / of bracket locks / minimum | 4 mm |
| Hasp thickness / of bracket locks / maximum | 8 mm |
| Product extension / optional                |      |
| • motor drive                               | No   |
| • Voltage trigger                           | No   |

### Short circuit

|  |      |
|--|------|
| Conditional short-circuit current / with line-side fuse protection |      |
| • at 690 V / by gG fuse / rated value                              | 6 kA |
| Number of NC contacts  | 0    |
| Number of NO contacts  | 0    |

### Connections

|   |  |
|---|--|
| <b>Type of connectable conductor cross-sections</b>                   |  |
| • for copper conductor / solid  | 1x (2.5 to 16 mm <sup>2</sup> )                            |
| • for copper conductor / stranded                                     | 1x (2.5 to 16 mm <sup>2</sup> )                            |
| • for auxiliary contacts / solid                                      | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>   |
| • for auxiliary contacts / finely stranded / with core end processing | 2x (0.75 ... 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup> |
| • for auxiliary contacts / 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  |

### Requirements

|   |                  |
|---|------------------|
| 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 |

### Mechanical Design

|  |                                     |
|--|-------------------------------------|
| Height                                   | 60 mm                               |
| Width                                    | 49 mm                               |
| Depth                                    | 114 mm                              |
| Mounting type                            | Built-in unit fixed-mounted version |
| Mounting type                            |                                     |
| • front mounting with 4-hole attachment  | No                                  |
| • front mounting with central attachment | Yes                                 |
| • rail mounting                          | No                                  |
| Net weight                               | 200 g                               |

### Environmental conditions

#### Ambient temperature

- |                              |        |
|------------------------------|--------|
| • during operation / minimum | -25 °C |
| • during operation / maximum | 55 °C  |

#### Certificates

##### Reference code

- |                          |    |
|--------------------------|----|
| • acc. to DIN EN 61346-2 | S  |
| • acc. to DIN EN 81346-2 | SF |

#### Declaration of Conformity



EG-Konf.

#### 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?mlfb=3LD3454-0TL51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3454-0TL51>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD3454-0TL51](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3454-0TL51)

##### CAX-Online-Generator

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

##### Tender specifications

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



