



Load disconnecter 3LD3, Iu 63 A Main switch 3-pole 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 red / yellow 66x66 mm

| Model                                                                               |                                        |
|-------------------------------------------------------------------------------------|----------------------------------------|
| product brand name                                                                  | SENTRON                                |
| product designation                                                                 | Switch disconnecter                    |
| design of the product                                                               | EMERGENCY-STOP switch                  |
| display version for switch position indicator manual operation                      | 1 ON - 0 OFF                           |
| type of switch                                                                      | front mounted                          |
| design of the actuating element                                                     | Short rotary knob                      |
| color of the actuating element                                                      | red                                    |
| design of handle                                                                    | rotary operating mechanism, red/yellow |
| type of the driving mechanism motor drive                                           | No                                     |
| 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                                                                 | IP65                                   |
| degree of protection NEMA rating                                                    | 1, 3R, 4X, 12                          |
| 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                                  |
| Main circuit                                                                        |                                        |
| operational current                                                                 |                                        |
| • at AC-21 at 690 V rated value                                                     | 63 A                                   |
| • at AC-21 A at 240 V rated value                                                   | 63 A                                   |
| • at AC-21 A at 400 V rated value                                                   | 63 A                                   |
| • at AC-21 A at 440 V rated value                                                   | 63 A                                   |

|                                                                                                                   |                                |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <ul style="list-style-type: none"> <li>• at AC-23 A at 400 V rated value</li> </ul>                               | 43 A                           |
| <b>operating power</b>                                                                                            |                                |
| <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                          |
| <b>Auxiliary circuit</b>                                                                                          |                                |
| 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                          |
| <b>Suitability</b>                                                                                                |                                |
| <b>suitability for use main switch</b>                                                                            | Yes                            |
| <b>suitability for use switch disconnecter</b>                                                                    | Yes                            |
| <b>suitability for use EMERGENCY OFF switch</b>                                                                   | Yes                            |
| <b>suitability for use safety switch</b>                                                                          | Yes                            |
| <b>suitability for use maintenance/repair switch</b>                                                              | Yes                            |
| <b>Product details</b>                                                                                            |                                |
| <b>special product feature</b>                                                                                    | Can be locked in zero position |
| product feature can be locked into OFF position                                                                   | Yes                            |
| <b>accessories</b>                                                                                                |                                |
| <b>product extension optional</b>                                                                                 |                                |
| <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>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>                                                                            | 3                              |
| <b>hasp thickness of the bracket locks</b>                                                                        | 4 ... 8 mm                     |
| <b>Short circuit</b>                                                                                              |                                |
| <b>conditional short-circuit current with line-side fuse protection</b>                                           |                                |
| <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>let-through current with closed switch</b>                                                                     |                                |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> </ul>             | 6 kA                           |
| <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>I<sup>2</sup>t value with closed switch</b>                                                                    |                                |
| <ul style="list-style-type: none"> <li>• at 240 V for combination switch + gG fuse maximum</li> </ul>             | 21 kA <sup>2</sup> .s          |
| <ul style="list-style-type: none"> <li>• at 440 V for combination switch + gG fuse maximum</li> </ul>             | 21 kA <sup>2</sup> .s          |
| <ul style="list-style-type: none"> <li>• at 690 V for combination switch + gG fuse maximum</li> </ul>             | 21 kA <sup>2</sup> .s          |
| <b>design of the fuse link</b>                                                                                    |                                |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit required</li> </ul>     | fuse gL/gG: 63 A               |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul> | fuse gL/gG: 10 A               |
| <b>operational current of upstream fuse rated value</b>                                                           | 63 A                           |
| <b>according UL</b>                                                                                               |                                |
| <b>operational current at AC according to UL 508/UL 60947-4-1 rated value</b>                                     | 63 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>                              | 25                             |
| <b>active power [hp] at AC at 600 V according to UL 508/UL</b>                                                    | 30                             |

|                                                                               |      |
|-------------------------------------------------------------------------------|------|
| 60947-4-1 rated value                                                         |      |
| 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 rated value               | 50 A |
| type of fuse according to UL                                                  | RK5  |

#### Connections

|                                                                                                                                                                                                              |                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AWG number as coded connectable conductor cross section solid maximum</b> <ul style="list-style-type: none"> <li>•</li> <li>•</li> </ul>                                                                  | 6<br>14                                                                                                                                                                            |
| <b>type of connectable conductor cross-sections for copper conductor</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul>   | 1x (2.5 to 16 mm <sup>2</sup> )<br>1x (2.5...16 mm <sup>2</sup> )<br>1x (2.5 to 16 mm <sup>2</sup> )                                                                               |
| <b>type of connectable conductor cross-sections for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• finely stranded with core end processing</li> <li>• stranded</li> </ul> | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup><br>2x (0.75 ... 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup><br>2x (0.75 ... 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup> |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary contacts</li> </ul>                                                          | box terminal<br>Box terminals                                                                                                                                                      |

#### Mechanical Design

|                                                                                                                                                                              |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| height                                                                                                                                                                       | 60 mm                               |
| width                                                                                                                                                                        | 36 mm                               |
| depth                                                                                                                                                                        | 114 mm                              |
| type of device                                                                                                                                                               | fixed mounting                      |
| fastening method                                                                                                                                                             | Built-in unit fixed-mounted version |
| <b>fastening method</b> <ul style="list-style-type: none"> <li>• 4-hole front mounting</li> <li>• front mounting with central attachment</li> <li>• rail mounting</li> </ul> | No<br>Yes<br>No                     |
| net weight                                                                                                                                                                   | 200 g                               |

#### Environmental conditions

|                                                                                                                            |                 |
|----------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>ambient temperature during operation</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul> | -25 °C<br>55 °C |
| <b>ambient temperature during storage</b> <ul style="list-style-type: none"> <li>• minimum</li> <li>• maximum</li> </ul>   | -25 °C<br>55 °C |

#### Approvals Certificates

##### General Product Approval



[Confirmation](#)



|       |             |
|-------|-------------|
| other | Environment |
|-------|-------------|

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firmations](#)

#### Further information

##### Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

##### 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=3LD3454-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3454-0TK53>

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

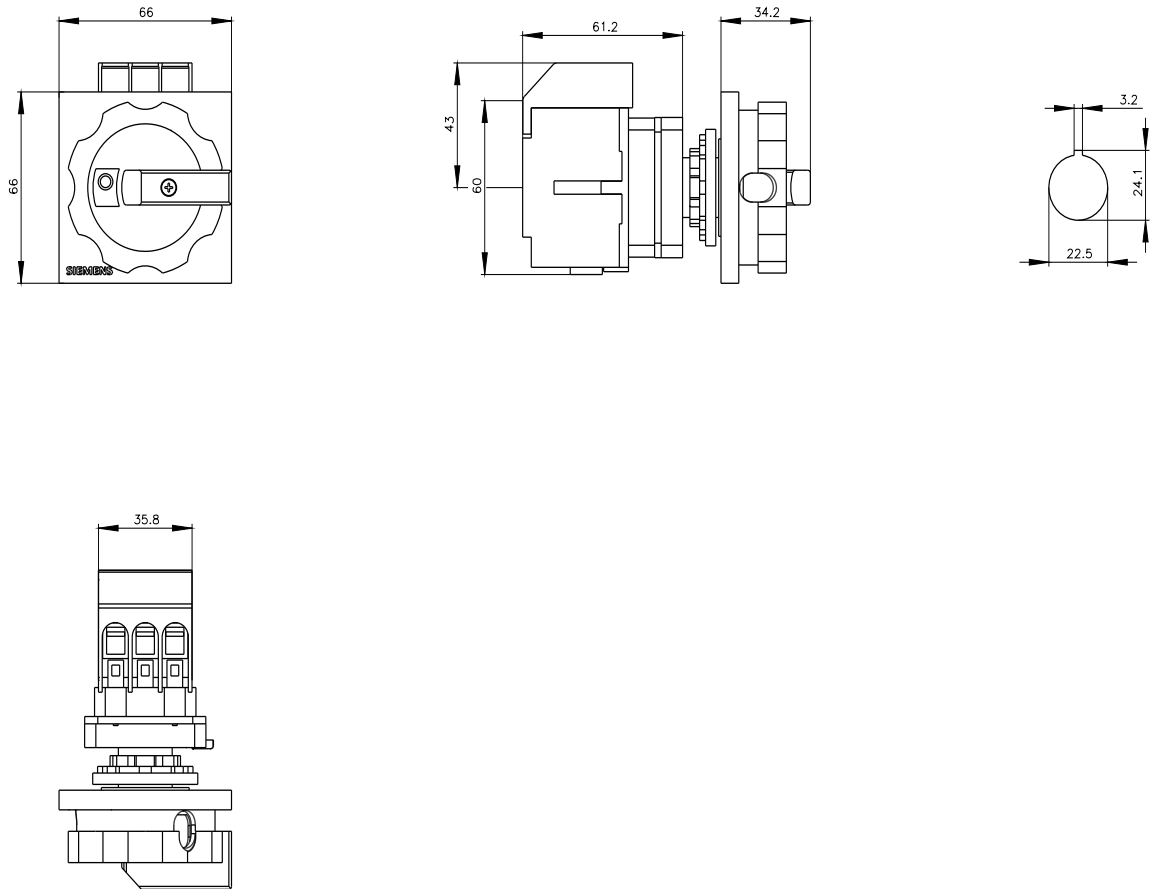
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD3454-0TK53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3454-0TK53)

CAX-Online-Generator

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

Tender specifications

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



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