



SETRON, Switch disconnecter 3LD, emergency switching-off switch, 4- pole, Iu: 63 A, operating power / at AC-23 A 400 V: 22 kW, front-mounted, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

| Model                                                            |                                        |
|------------------------------------------------------------------|----------------------------------------|
| Product brand name                                               | SETRON                                 |
| Product designation                                              | 3LD Switch disconnecter                |
| Design of the product                                            | EMERGENCY-STOP 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, red/yellow |
| Type of the driving mechanism / motor drive                      | No                                     |

| General technical data                                                                 |                |
|----------------------------------------------------------------------------------------|----------------|
| Number of poles                                                                        | 4              |
| Type of device                                                                         | fixed mounting |
| Type of switch                                                                         | front mounted  |
| Size of switch disconnecter                                                            | 3              |
| Electrical endurance (switching cycles)                                                |                |
| • at AC-23 A / at 690 V                                                                | 6 000          |
| I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum | 21 kA2.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 |
| Mechanical service life (switching cycles) / typical                                                           | 100 000               |
| Operating frequency / maximum                                                                                  | 50 1/h                |

## Voltage

|                                                                                                       |       |
|-------------------------------------------------------------------------------------------------------|-------|
| Insulation voltage / rated value                                                                      | 690 V |
| Surge voltage resistance / rated value                                                                | 6 kV  |
| Operating current / at AC / rated value                                                               | 63 A  |
| Operating voltage <ul style="list-style-type: none"> <li>at AC / at 50/60 Hz / rated value</li> </ul> | 690 V |

## 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] <ul style="list-style-type: none"> <li>for rated value of the current / at AC / in hot operating state / per pole</li> <li>per conductor / typical</li> </ul> | 4.5 W<br>4.5 W |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|

## Current

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Operating current <ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / rated value</li> <li>at AC-23 A / at 400 V / rated value</li> <li>at AC-22 A / at 690 V / rated value</li> <li>at AC-21 / at 690 V / rated value</li> <li>at AC-21 A / at 240 V / rated value</li> <li>at AC-21 A / at 440 V / rated value</li> <li>at AC-22 A / at 240 V / rated value</li> <li>at AC-22 A / at 440 V / rated value</li> <li>at AC-23 A / at 240 V / rated value</li> <li>at AC-23 A / at 440 V / rated value</li> </ul> | 22 A<br>43 A<br>63 A<br>63 A<br>63 A<br>63 A<br>63 A<br>63 A<br>43 A<br>43 A |
| Operating 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> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>                                                                                                                                                                                                                                                                                                | 6 kA<br>6 kA                                                                 |
| Short-time withstand current (I <sub>cw</sub> ) <ul style="list-style-type: none"> <li>limited to 1 s / rated value</li> <li>at 690 V / limited to 1 s / rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                            | 1 260 A<br>1 260 A                                                           |

## Main circuit

|                                                     |         |
|-----------------------------------------------------|---------|
| Operating frequency                                 |         |
| • initial value                                     | 50 Hz   |
| • Full-scale value                                  | 60 Hz   |
| Operating power                                     |         |
| • at AC-23 A / at 240 V / rated value               | 11 kW   |
| • at AC-23 A / at 400 V / at 50/60 Hz / rated value | 22 kW   |
| • at AC-23 A / at 400 V / rated value               | 22 kW   |
| • at AC-23 A / at 440 V / rated value               | 22 kW   |
| • at AC-23 A / at 690 V / rated value               | 18.5 kW |
| • at AC-3 / at 240 V / rated value                  | 11 kW   |
| • at AC-3 / at 400 V / rated value                  | 18.5 kW |
| • at AC-3 / at 690 V / rated value                  | 15 kW   |
| Operating current / rated value                     | 63 A    |

| 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                 |     |
|-----------------------------|-----|
| Suitability for use         |     |
| • Main switch               | Yes |
| • switch disconnecter       | Yes |
| • EMERGENCY OFF switch      | Yes |
| • safety switch             | Yes |
| • maintenance/repair switch | Yes |

| Appearance                       |     |
|----------------------------------|-----|
| Color / of the actuating element | red |

| Product details                                      |      |
|------------------------------------------------------|------|
| • Product function / can be locked into OFF position | Yes  |
| Number of bracket locks / maximum                    | 3    |
| Hasp thickness / of the bracket locks / minimum      | 4 mm |
| Hasp thickness / of the 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

50 kA

## according UL

Operating current / at AC / acc. to UL 508 / rated value

63 A

Operating voltage / at AC / at 50/60 Hz / acc. to UL 508 / rated value

600 V

Active power [hp] / at AC / at 480 V / acc. to UL 508 / rated value

40

Active power [hp] / at AC / at 600 V / acc. to UL 508 / rated value

50

Short-time withstand current (SCCR) / at 600 V / acc. to UL 508

5 kA

Continuous current / of upstream fuse / according to UL / rated value

175 A

Type of fuse / according to UL

RK5

Number of connectable NC contacts / for auxiliary contacts / attachable / maximum

2

Number of connectable NO contacts / for auxiliary contacts / attachable / maximum

2

Number of connectable CO contacts / for auxiliary contacts / attachable / maximum

0

## Connections

AWG number / as coded connectable conductor cross section / solid

- maximum
- minimum

6

14

Type of connectable conductor cross-sections / for copper conductor

- solid
- finely stranded / with core end processing
- stranded

1x (2,5...35mm<sup>2</sup>)

1x (2,5...16 mm<sup>2</sup>)

1x (2,5...35mm<sup>2</sup>)

Type of connectable conductor cross-sections / for auxiliary contacts

- solid
- finely stranded / with core end processing
- stranded

lateral auxiliary switch 2x (0,75 ... 2,5mm<sup>2</sup>), 1x 4mm<sup>2</sup>; front auxiliary switch 1x (0,75 ... 2,5mm<sup>2</sup>)

lateral auxiliary switch 2x (0,75 ... 1,5mm<sup>2</sup>), 1x 2,5mm<sup>2</sup>; front auxiliary switch 1x 2,5mm<sup>2</sup>

lateral auxiliary switch 2x (0,75 ... 2,5mm<sup>2</sup>), 1x 4mm<sup>2</sup>; front auxiliary switch 1x (0,75 ... 2,5mm<sup>2</sup>)

Type of electrical connection

- for main current circuit

box terminal

- for auxiliary contacts

connection terminals

## Requirements

### Design of the fuse link

- for short-circuit protection of the main circuit / required
- for short-circuit protection of the auxiliary switch / required

fuse gL/gG: 63 A

fuse gL/gG: 10 A

## Mechanical Design

### Height

106 mm

### Width

90 mm

### Depth

110.5 mm

### Mounting type

Built-in unit fixed-mounted version

### Mounting type

- front mounting with 4-hole attachment
- front mounting with central attachment
- rail mounting

Yes

No

No

### Net weight

490 g

## Environmental conditions

### Ambient temperature / during operation

- minimum
- maximum

-25 °C

55 °C

### Ambient temperature / during storage / minimum

-25 °C

## Certificates

### Reference code

- acc. to DIN EN 61346-2
- acc. to DIN EN 81346-2

S

SF

### General Product Approval

### Declaration of Conformity

### Test Certificates

### other



CCC



CSA



UL



EG-Konf.

[Special Test Certificate](#)

[Environmental Confirmations](#)

## Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/lowvoltage/catalogs>

### Industry Mall (Online ordering system)

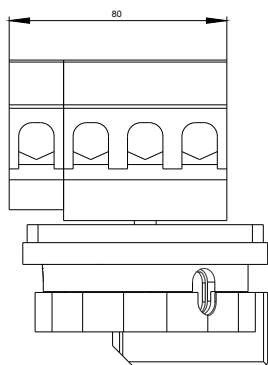
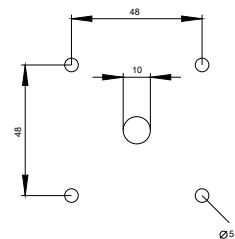
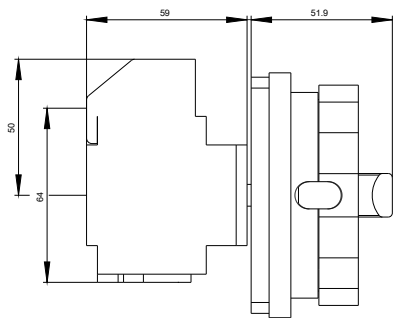
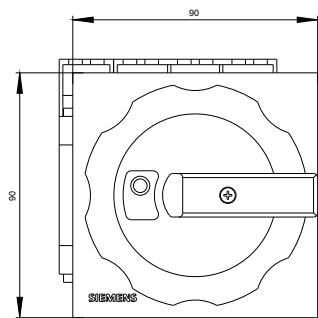
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2504-1TL53>

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

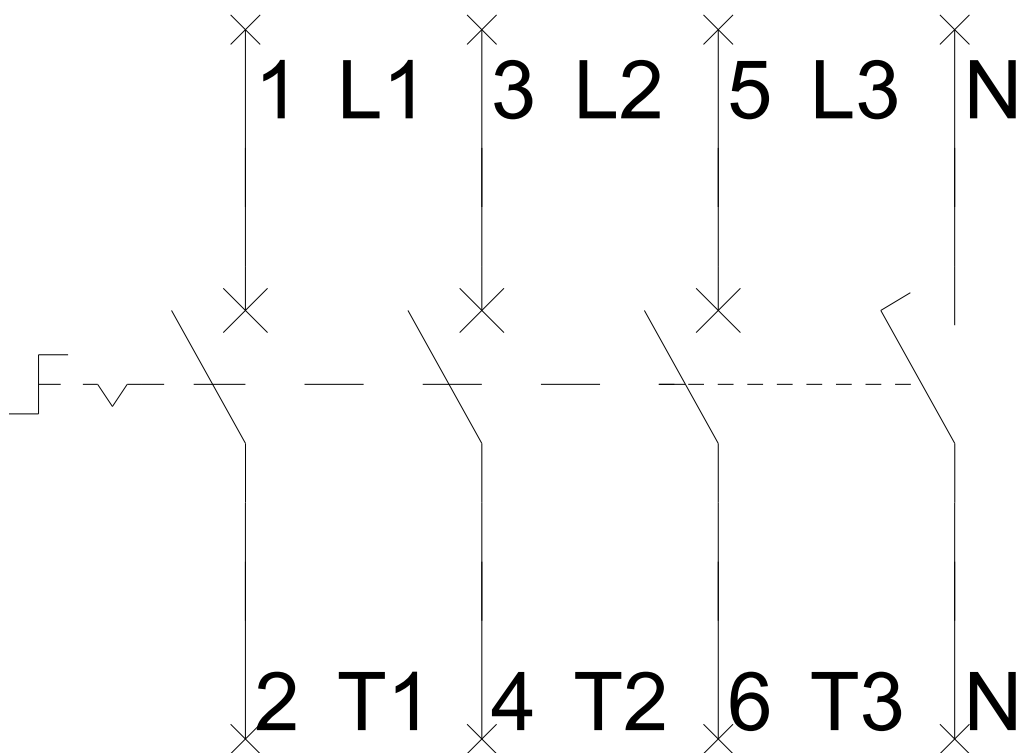
<https://support.industry.siemens.com/cs/ww/en/ps/3LD2504-1TL53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD2504-1TL53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2504-1TL53)



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