

Load disconnecter 3LD3, Iu 25 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 9.0kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive red / yellow 66x66 mm



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	3
number of poles / note	3
type of device	fixed mounting
type of switch	front mounted
mechanical service life (switching cycles)	
• typical	100 000
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	4 kA <sup>2</sup> .s
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA <sup>2</sup> .s
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	25 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>	1.1 W 1.1 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>	11 A 20 A 11 A 25 A 25 A 25 A 16 A 19 A 16 A 19 A
operating current / of upstream fuse / rated value	25 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>	3.5 kA 3.5 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>	500 A 500 A

Main circuit	
operating frequency	
<ul style="list-style-type: none"> <li>initial value</li> </ul>	50 Hz
<ul style="list-style-type: none"> <li>full-scale value</li> </ul>	60 Hz
operating power	
<ul style="list-style-type: none"> <li>at AC-23 A / at 240 V / rated value</li> </ul>	4 kW
<ul style="list-style-type: none"> <li>at AC-23 A / at 400 V / rated value</li> </ul>	9.5 kW
<ul style="list-style-type: none"> <li>at AC-23 A / at 440 V / rated value</li> </ul>	9 kW
<ul style="list-style-type: none"> <li>at AC-23 A / at 690 V / rated value</li> </ul>	9 kW
<ul style="list-style-type: none"> <li>at AC-3 / at 240 V / rated value</li> </ul>	4 kW
<ul style="list-style-type: none"> <li>at AC-3 / at 400 V / rated value</li> </ul>	7.5 kW
<ul style="list-style-type: none"> <li>at AC-3 / at 690 V / rated value</li> </ul>	7.5 kW
operating current / rated value	25 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	
<ul style="list-style-type: none"> <li>main switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>switch disconnecter</li> </ul>	Yes
<ul style="list-style-type: none"> <li>EMERGENCY OFF switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>safety switch</li> </ul>	Yes
<ul style="list-style-type: none"> <li>maintenance/repair switch</li> </ul>	Yes

Appearance	
color / of the actuating element	red

Product details	
<ul style="list-style-type: none"> <li>product function / can be locked into OFF position</li> </ul>	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
special product feature	Can be locked in zero position
product extension / optional	
<ul style="list-style-type: none"> <li>motor drive</li> </ul>	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

### according UL

operating current / at AC / according to UL 508/UL 60947-4-1 / rated value

25 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

10

active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value

15

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

### Number

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

### 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 to 16 mm<sup>2</sup>)

1x (2.5...16 mm<sup>2</sup>)

1x (2.5 to 16 mm<sup>2</sup>)

type of connectable conductor cross-sections / for auxiliary contacts

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

2x (0.75 ... 2.5 mm<sup>2</sup>), 1x 4 mm<sup>2</sup>

2x (0.75 ... 1.5 mm<sup>2</sup>), 1x 2.5 mm<sup>2</sup>

2x (0.75 ... 2.5 mm<sup>2</sup>), 1x 4 mm<sup>2</sup>

type of electrical connection

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

fuse gL/gG: 25 A

fuse gL/gG: 10 A

## Mechanical Design

height

60 mm

width

36 mm

depth

114 mm

mounting type

Built-in unit fixed-mounted version

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

No

Yes

No

net weight

200 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



CCC



UL



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=3LD3154-0TK53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3154-0TK53>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3LD3154-0TK53](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3154-0TK53)



