

Load disconnecter 3LD3, Iu 25 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 9.0kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive black 48x48 mm



Model	
product brand name	SETRON
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	selector switch
design of handle	knob-operated 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
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 ² .s
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA ² .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"> • at AC / at 50/60 Hz / rated value 	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"> • for rated value of the current / at AC / in hot operating state / per pole • per conductor / typical 	1.1 W 1.1 W
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Current

operating current <ul style="list-style-type: none"> • at AC-23 A / at 690 V / rated value • at AC-23 A / at 400 V / rated value • at AC-22 A / at 690 V / rated value • at AC-21 / at 690 V / rated value • at AC-21 A / at 240 V / rated value • at AC-21 A / at 440 V / rated value • at AC-22 A / at 240 V / rated value • at AC-22 A / at 440 V / rated value • at AC-23 A / at 240 V / rated value • at AC-23 A / at 440 V / rated value 	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"> • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible 	3.5 kA 3.5 kA
short-time withstand current (I _{cw}) <ul style="list-style-type: none"> • limited to 1 s / rated value • at 690 V / limited to 1 s / rated value 	500 A 500 A

Main circuit	
operating frequency	
<ul style="list-style-type: none"> initial value 	50 Hz
<ul style="list-style-type: none"> full-scale value 	60 Hz
operating power	
<ul style="list-style-type: none"> at AC-23 A / at 240 V / rated value 	4 kW
<ul style="list-style-type: none"> at AC-23 A / at 400 V / rated value 	9.5 kW
<ul style="list-style-type: none"> at AC-23 A / at 440 V / rated value 	9 kW
<ul style="list-style-type: none"> at AC-23 A / at 690 V / rated value 	9 kW
<ul style="list-style-type: none"> at AC-3 / at 240 V / rated value 	4 kW
<ul style="list-style-type: none"> at AC-3 / at 400 V / rated value 	7.5 kW
<ul style="list-style-type: none"> at AC-3 / at 690 V / rated value 	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"> main switch 	Yes
<ul style="list-style-type: none"> switch disconnecter 	Yes
<ul style="list-style-type: none"> EMERGENCY OFF switch 	No
<ul style="list-style-type: none"> safety switch 	Yes
<ul style="list-style-type: none"> maintenance/repair switch 	Yes

Appearance	
color / of the actuating element	black

Product details	
<ul style="list-style-type: none"> product function / can be locked into OFF position 	Yes
number of bracket locks / maximum	2
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	6 mm
special product feature	Can be locked in zero position
product extension / optional	
<ul style="list-style-type: none"> 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

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 mm²)

1x (2.5...16 mm²)

1x (2.5 to 16 mm²)

type of connectable conductor cross-sections / for auxiliary contacts

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

2x (0.75 ... 2.5 mm²), 1x 4 mm²

2x (0.75 ... 1.5 mm²), 1x 2.5 mm²

2x (0.75 ... 2.5 mm²), 1x 4 mm²

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

49 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=3LD3150-0TL11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3150-0TL11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3150-0TL11



