

Load disconnecter 3LD3, Iu 25 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 9.0kW Installation in distribution boards, Basic switch with selector knob black



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	DIN-rail mounting
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 kA2.s

Let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA ² .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
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	IP40
Protection class IP / on the front	IP40

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
Continuous current <ul style="list-style-type: none"> • rated value • at 40 °C / rated value • at 45 °C / rated value • at 50 °C / rated value • at 55 °C / rated value 	25 A 25 A 25 A 25 A 25 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 	3.5 kA

<ul style="list-style-type: none"> • at 690 V / for combination switch + gG fuse / maximum permissible 	3.5 kA
Short-time withstand current (I _{cw})	
<ul style="list-style-type: none"> • limited to 1 s / rated value 	500 A
<ul style="list-style-type: none"> • at 690 V / limited to 1 s / rated value 	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
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Product details

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
Number of NC contacts	0
Number of NO contacts	0
Special product feature	Can be locked in zero position

Short circuit

Conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> at 690 V / by gG fuse / rated value 	6 kA
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	
<ul style="list-style-type: none"> maximum 	14
<ul style="list-style-type: none"> minimum 	6
Type of electrical connection	
<ul style="list-style-type: none"> for main current circuit 	box terminal
<ul style="list-style-type: none"> for auxiliary contacts 	Box terminals

Requirements

Design of the fuse link	
<ul style="list-style-type: none"> for short-circuit protection of the main circuit / required 	fuse gL/gG: 25 A
<ul style="list-style-type: none"> for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A

Mechanical Design

Height	60 mm
Width	49 mm
Depth	77 mm
Mounting type	Built-in unit fixed-mounted version
Mounting type	
<ul style="list-style-type: none"> front mounting with 4-hole attachment 	No
<ul style="list-style-type: none"> front mounting with central attachment 	No
<ul style="list-style-type: none"> rail mounting 	Yes
Net weight	200 g

Environmental conditions

Ambient temperature / during operation	
<ul style="list-style-type: none"> minimum 	-25 °C
<ul style="list-style-type: none"> maximum 	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=3LD3130-0TL11>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3130-0TL11>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3130-0TL11

CAX-Online-Generator

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

Tender specifications

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



