

Load disconnecter 3LD3, Iu 40 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400 V 18.5 kW Installation in distribution boards, Basic switch with selector knob red / yellow



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	selector switch
Design of handle	knob-operated mechanism, red/yellow
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	15 kA2.s
Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	15 kA2.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	40 A
Operating voltage	
• 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]	
• for rated value of the current / at AC / in hot operating state / per pole	2.5 W
• per conductor / typical	1.8 W
Current	
Operating current	
• at AC-23 A / at 690 V / rated value	17 A
• at AC-23 A / at 400 V / rated value	36 A
• at AC-22 A / at 690 V / rated value	17 A
• at AC-21 / at 690 V / rated value	40 A
• at AC-21 A / at 240 V / rated value	40 A
• at AC-21 A / at 440 V / rated value	40 A
• at AC-22 A / at 240 V / rated value	27 A
• at AC-22 A / at 440 V / rated value	29 A
• at AC-23 A / at 240 V / rated value	27 A
• at AC-23 A / at 440 V / rated value	29 A
Operating current / of upstream fuse / rated value	40 A
let-through current / with closed switch	
• at 440 V / for combination switch + gG fuse / maximum	5 kA
• at 690 V / for combination switch + gG fuse / maximum permissible	5 kA
Short-time withstand current (I _{cw})	
• limited to 1 s / rated value	1 000 A
• at 690 V / limited to 1 s / rated value	1 000 A
Main circuit	
Operating frequency	
• initial value	50 Hz
• Full-scale value	60 Hz

Operating power	
<ul style="list-style-type: none"> • at AC-23 A / at 240 V / rated value • at AC-23 A / at 400 V / rated value • at AC-23 A / at 440 V / rated value • at AC-23 A / at 690 V / rated value • at AC-3 / at 240 V / rated value • at AC-3 / at 400 V / rated value • at AC-3 / at 690 V / rated value 	<p>7.5 kW</p> <p>18.5 kW</p> <p>15 kW</p> <p>15 kW</p> <p>7.5 kW</p> <p>11.5 kW</p> <p>11.5 kW</p>
Operating current / rated value	40 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 • switch disconnecter • EMERGENCY OFF switch • safety switch • maintenance/repair switch 	<p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>

Appearance	
Color / of the actuating element	red

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 • Voltage trigger 	<p>No</p> <p>No</p>

Short circuit	
Conditional short-circuit current / with line-side fuse protection	

- at 690 V / by gG fuse / rated value

6 kA

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	
<ul style="list-style-type: none"> • maximum • minimum 	<p>6</p> <p>14</p>
Type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	<p>1x (2.5 to 16 mm²)</p> <p>1x (2.5...16 mm²)</p> <p>1x (2.5 to 16 mm²)</p>
Type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	<p>2x (0.75 ... 2.5 mm²), 1x 4 mm²</p> <p>2x (0.75 ... 1.5 mm²), 1x 2.5 mm²</p> <p>2x (0.75 ... 2.5 mm²), 1x 4 mm²</p>
Type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts 	<p>box terminal</p> <p>Box terminals</p>

Requirements

Design of the fuse link	
<ul style="list-style-type: none"> • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required 	<p>fuse gL/gG: 40 A</p> <p>fuse gL/gG: 10 A</p>

Mechanical Design

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

net weight	200 g
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Environmental conditions

Ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
Ambient temperature / during storage / minimum	-25 °C

Certificates

• reference code / acc. to DIN EN 61346-2	S
• Reference code / acc. to DIN EN 81346-2	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=3LD3330-0TL13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3330-0TL13>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3330-0TL13

CAX-Online-Generator

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

Tender specifications

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



