



Load disconnecter 3LD3, Iu 16 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 7.5kW Installation in distribution boards, Basic switch without Knob-operated mechanism with auxiliary switch 1OE + 1S

Model	
product brand name	SENTRON
product designation	3LD Switch disconnecter
design of the product	Switch
display version / for switch position indicator manual operation	1 ON - 0 OFF
design of the actuating element	Without handle
design of handle	without
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
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles)	
• at AC-23 A / at 690 V	6 000
I _{2t} value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	3 kA ² .s
let-through I _{2t} value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 kA ² .s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
surge voltage resistance / rated value	6 kV
Protection class	
protection class IP	IP20
protection class IP / on the front	IP20
Dissipation	
power loss [W]	
• for rated value of the current / at AC / in hot operating state / per pole	0.5 W
• per conductor / typical	1 W
Current	
operational current	
• at 40 °C / rated value	16 A
• at 45 °C / rated value	16 A
• at 50 °C / rated value	16 A
• at 55 °C / rated value	16 A
• at AC / rated value	16 A

<ul style="list-style-type: none"> • at AC-23 A / at 400 V / rated value 	16 A
<ul style="list-style-type: none"> • at AC-21 / at 690 V / rated value 	16 A
<ul style="list-style-type: none"> • at AC-21 A / at 240 V / rated value 	16 A
<ul style="list-style-type: none"> • at AC-21 A / at 440 V / rated value 	16 A
operational current / of upstream fuse / rated value	16 A
let-through current / with closed switch	
<ul style="list-style-type: none"> • at 440 V / for combination switch + gG fuse / maximum 	3 kA
<ul style="list-style-type: none"> • at 690 V / for combination switch + gG fuse / maximum permissible 	3 kA
Main circuit	
operating power	
<ul style="list-style-type: none"> • at AC-23 A / at 240 V / rated value 	3 kW
<ul style="list-style-type: none"> • at AC-23 A / at 400 V / rated value 	8 kW
<ul style="list-style-type: none"> • at AC-23 A / at 440 V / rated value 	7.5 kW
<ul style="list-style-type: none"> • at AC-23 A / at 690 V / rated value 	8 kW
<ul style="list-style-type: none"> • at AC-3 / at 240 V / rated value 	3 kW
<ul style="list-style-type: none"> • at AC-3 / at 400 V / rated value 	6 kW
<ul style="list-style-type: none"> • at AC-3 / at 690 V / rated value 	5.5 kW
operational current / rated value	16 A
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
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 	Yes
<ul style="list-style-type: none"> • safety switch 	Yes
<ul style="list-style-type: none"> • maintenance/repair switch 	Yes
Product details	
product feature	
<ul style="list-style-type: none"> • can be locked into OFF position 	No
special product feature	Basic Switch
product extension / optional	
<ul style="list-style-type: none"> • motor drive 	No
<ul style="list-style-type: none"> • voltage trigger 	No
Short circuit	
conditional short-circuit current / with line-side fuse protection	
<ul style="list-style-type: none"> • at 440 V / by gG fuse / rated value 	10 kA
<ul style="list-style-type: none"> • at 690 V / by gG fuse / rated value 	6 kA
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	16 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	7.5
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	10
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	
<ul style="list-style-type: none"> • maximum • minimum 	6 14
type of connectable conductor cross-sections / for copper conductor	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	1x (2.5 to 16 mm ²) 1x (2.5...16 mm ²) 1x (2.5 to 16 mm ²)
type of connectable conductor cross-sections / for auxiliary contacts	
<ul style="list-style-type: none"> • solid • finely stranded / with core end processing • stranded 	2x (0.75 ... 2.5 mm ²), 1x 4 mm ² 2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ² 2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary contacts 	box terminal Box terminals

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 	fuse gL/gG: 20 A fuse gL/gG: 10 A

Mechanical Design

height	60 mm
width	60 mm
depth	64 mm
fastening method	Built-in unit fixed-mounted version
fastening method	
<ul style="list-style-type: none"> • 4-hole front mounting • front mounting with central attachment • rail mounting 	No No Yes
net weight	200 g

Environmental conditions

ambient temperature / during operation	
<ul style="list-style-type: none"> • minimum • maximum 	-25 °C 55 °C
ambient temperature / during storage / minimum	-25 °C

General Product Approval

Declaration of Conformity



[Confirmation](#)



other

[Miscellaneous](#)

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?mfb=3LD3010-1TL05>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD3010-1TL05>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3LD3010-1TL05

CAX-Online-Generator

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

Tender specifications

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



