



3LD3 switch disconnecter, Iu 16 A main switch 3-pole + N rated operational power at AC-23 A at 400 V 7.5 kW basic switch without knob-operated mechanism with auxiliary switches 1 NO + 1 NC

Model	
product brand name	SENTRON
product designation	Switch disconnecter
design of the product	Switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	DIN-rail mounting
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
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating cycles)	
• at AC-23 A at 690 V	6 000
operating frequency maximum	50 1/h
degree of pollution	3
Voltage	
insulation voltage rated value	690 V
surge voltage resistance rated value	6 kV
operating voltage	
• at AC rated value	690 V
operating frequency rated value	
• minimum	50 Hz
• maximum	60 Hz
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
Main circuit	
operational current	
• at AC-21 at 690 V rated value	16 A
• at AC-21 A at 240 V rated value	16 A
• at AC-21 A at 400 V rated value	16 A
• at AC-21 A at 440 V rated value	16 A
• at AC-23 A at 400 V rated value	16 A
operating power	

• at AC-23 A at 240 V rated value	3 kW
• at AC-23 A at 400 V rated value	8 kW
• at AC-23 A at 440 V rated value	7.5 kW
• at AC-23 A at 690 V rated value	8 kW
• at AC-3 at 240 V rated value	3 kW
• at AC-3 at 400 V rated value	6 kW
• at AC-3 at 690 V rated value	5.5 kW

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 main switch	Yes
suitability for use switch disconnecter	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes

Product details

special product feature	Basic Switch
product feature can be locked into OFF position	No

Accessories

product extension optional	
• motor drive	No
• voltage trigger	No
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

Short circuit

conditional short-circuit current with line-side fuse protection	
• at 440 V by gG fuse rated value	10 kA
• at 690 V by gG fuse rated value	6 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	3 kA
• at 440 V for combination switch + gG fuse maximum	3 kA
• at 690 V for combination switch + gG fuse maximum permissible	3 kA
I²t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	2.5 kA ² .s
• at 440 V for combination switch + gG fuse maximum	2.5 kA ² .s
• at 690 V for combination switch + gG fuse maximum	3 kA ² .s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 20 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	16 A

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
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	6
•	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2.5 to 16 mm ²)
• finely stranded with core end processing	1x (2.5...16 mm ²)
• stranded	1x (2.5 to 16 mm ²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
• finely stranded with core end processing	2x (0.75 ... 1.5 mm ²), 1x 2.5 mm ²
• stranded	2x (0.75 ... 2.5 mm ²), 1x 4 mm ²
type of electrical connection	
• for main current circuit	box terminal
• for auxiliary contacts	Box terminals
Mechanical Design	
height	60 mm
width	60 mm
depth	64 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	No
• front mounting with central attachment	No
• rail mounting	Yes
Net Weight	202 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
Approvals Certificates	
General Product Approval	other



other	Environment
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[Confirmation](#)

[Environmental Confirmations](#)

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Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/lowvoltage/catalogs>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mifb=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, ...)

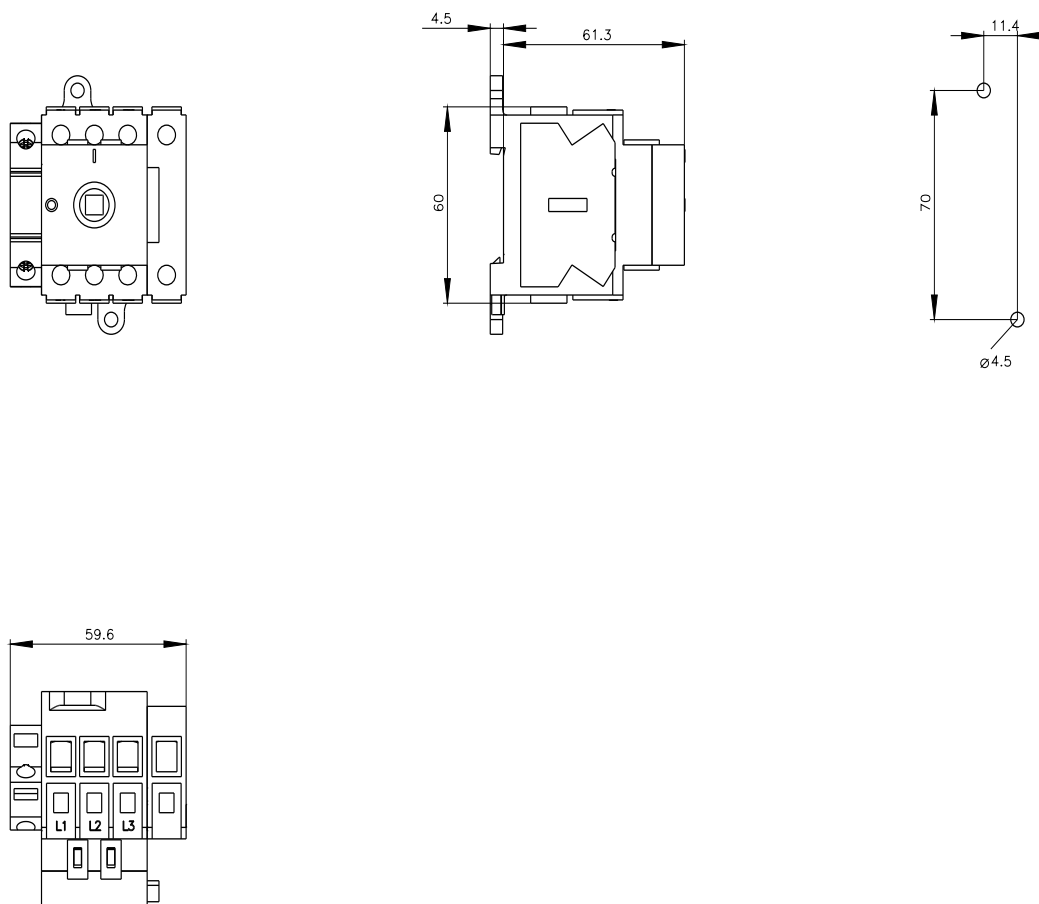
https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3010-1TL05

CAX-Online-Generator

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

Tender specifications

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



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