



SENTRON, Switch disconnecter 3LD, main switch, 3-pole, Iu: 125 A, Operating power / at AC-23 A at 400 V: 45 kW, molded-plastic encapsulation for inch cable gland, 1 NC, 1 NO, rotary operating mechanism, black

Model	
product brand name	SENTRON
product designation	3LD Switch disconnecter
design of the product	Main switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	Molded-plastic enclosure for inch threaded joint
design of the actuating element	Short rotary knob
color of the actuating element	black
design of handle	rotary operating mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
number of poles note	PE
size of switch disconnecter	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	IP65
degree of protection NEMA rating	1, 4X, 12
protection class IP on the front	IP65
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	12 W
Current	
operational current rated value	125 A
operational current	
• at 40 °C rated value	125 A
• at 45 °C rated value	125 A
• at 50 °C rated value	125 A

- at 55 °C rated value 125 A
- at AC rated value 125 A

Main circuit

operational current	
• at AC-21 at 690 V rated value	125 A
• at AC-21 A at 240 V rated value	125 A
• at AC-21 A at 400 V rated value	125 A
• at AC-21 A at 440 V rated value	125 A
• at AC-23 A at 400 V rated value	80 A
operating power	
• at AC-23 A at 240 V rated value	22 kW
• at AC-23 A at 400 V rated value	45 kW
• at AC-23 A at 440 V rated value	45 kW
• at AC-23 A at 690 V rated value	37 kW
• at AC-3 at 240 V rated value	22 kW
• at AC-3 at 400 V rated value	37 kW
• at AC-3 at 690 V rated value	30 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
• switch disconnecter	Yes
• EMERGENCY OFF switch	No
• safety switch	Yes
• maintenance/repair switch	Yes

Product details

product feature can be locked into OFF position	Yes
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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	3
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 ... 8 mm

Short circuit

conditional short-circuit current with line-side fuse protection	
• at 690 V by gG fuse rated value	20 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	10 kA
• at 440 V for combination switch + gG fuse maximum	10 kA
• at 690 V for combination switch + gG fuse maximum permissible	10 kA
I ² t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	104 kA ² .s
• at 440 V for combination switch + gG fuse maximum	104 kA ² .s
• at 690 V for combination switch + gG fuse maximum	104 kA ² .s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 125 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	125 A

according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	125 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	75
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	100
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	10 kA
continuous current of upstream fuse according to UL rated value	200 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid	
• maximum • minimum	1 12
type of connectable conductor cross-sections for copper conductor	
• solid • finely stranded with core end processing • stranded	1x (4...50mm ²) 1x (4...35mm ²) 1x (4...50mm ²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid • finely stranded with core end processing • stranded	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²) lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ² lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)
type of electrical connection	
• for main current circuit • for auxiliary contacts	box terminal connection terminals
Mechanical Design	
height	302 mm
width	212 mm
depth	181 mm
type of device	fixed mounting
fastening method	Complete unit in enclosure
fastening method	
• 4-hole front mounting • front mounting with central attachment • rail mounting	No Yes No
net weight	1 856 g
Environmental conditions	
ambient temperature during operation	
• minimum • maximum	-25 °C 55 °C
ambient temperature during storage	
• minimum • maximum	-25 °C 55 °C
General Product Approval	



[Confirmation](#)



[Miscellaneous](#)

General Product Approval	Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Special Test Certificate](#)



other

[Environmental Confirmations](#)

[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?mlfb=3LD2866-1GP51-0US2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2866-1GP51-0US2>

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

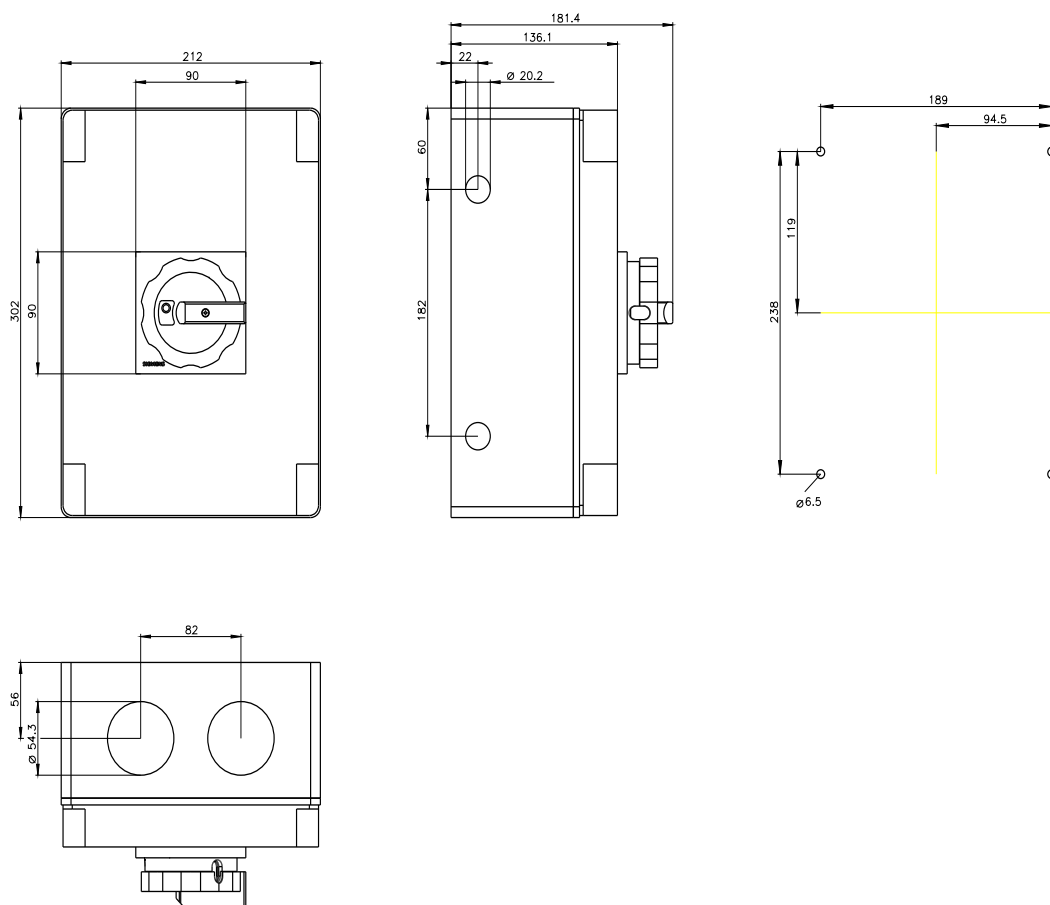
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2866-1GP51-0US2

CAX-Online-Generator

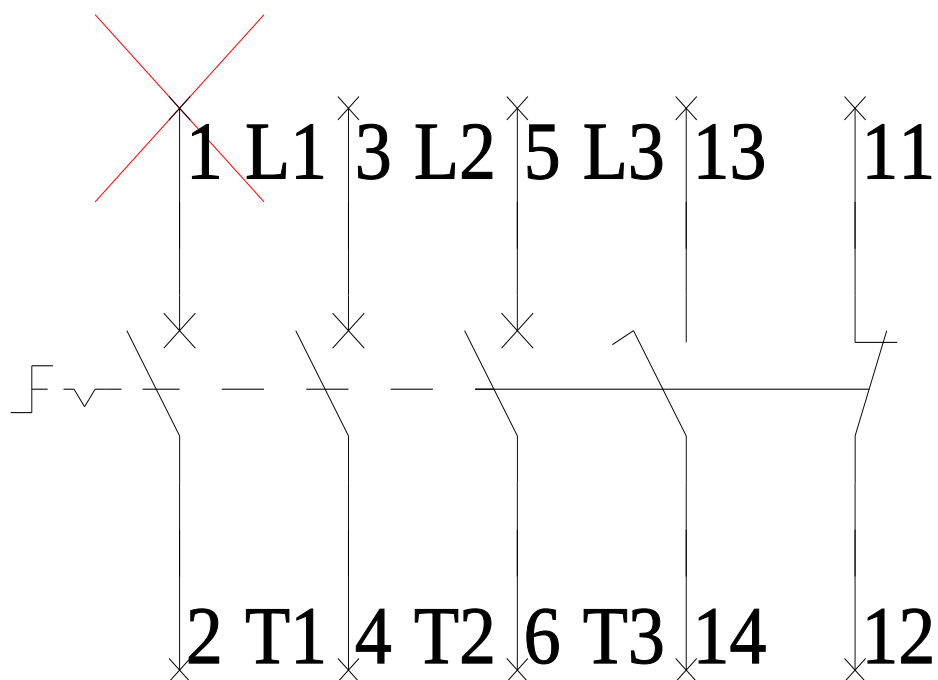
<http://www.siemens.com/cax>

Tender specifications

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



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