SIEMENS

Data sheet 3LD2866-1GP51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 125 A, Operating power / at AC-23 A at 400 V: 45 kW, molded-plastic encapsulation for metric screw connection, 1 NC, 1 NO, rotary operating mechanism, black

product brand name	SENTRON
product designation	Switch disconnector
-	Main switch
design of the product	1 ON - 0 OFF
display version for switch position indicator manual operation	I ON - 0 OFF
type of switch	Molded-plastic enclosure for metric 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
eneral technical data	
number of poles	3
number of poles note	N
size of switch disconnector	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
oltage	
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
rotection class	
protection class IP	IP65
degree of protection NEMA rating	1, 4X, 12
protection class IP on the front	IP65
issipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	12 W
ain 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	JO RVV
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	
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 disconnector	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
· ·	165
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 	10 kA
permissible	
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	104 kA2.s
• at 440 V for combination switch + gG fuse maximum	104 kA2.s
• at 690 V for combination switch + gG fuse maximum	104 kA2.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	125 A
rated value	600 V
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	
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	
•	1
•	12
type of connectable conductor cross-sections for copper conductor	
• solid	1x (450mm²)
 finely stranded with core end processing 	1x (435mm²)
stranded	1x (450mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
 finely stranded with core end processing 	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
 for main current circuit 	box terminal
for auxiliary contacts	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 	No
 front mounting with central attachment 	Yes
rail mounting	No
Net Weight	1.807 kg
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













General Product Approval

Test Certificates

Maritime application

other

Miscellaneous



Miscellaneous





Confirmation

Environment

Environmental Con-

Environmental Con-

Information on the packaging

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,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2866-1GP51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2866-1GP5

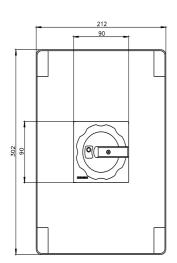
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2866-1GP51

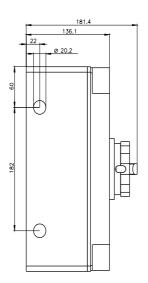
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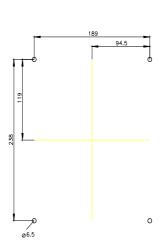
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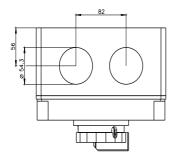
Tender specifications

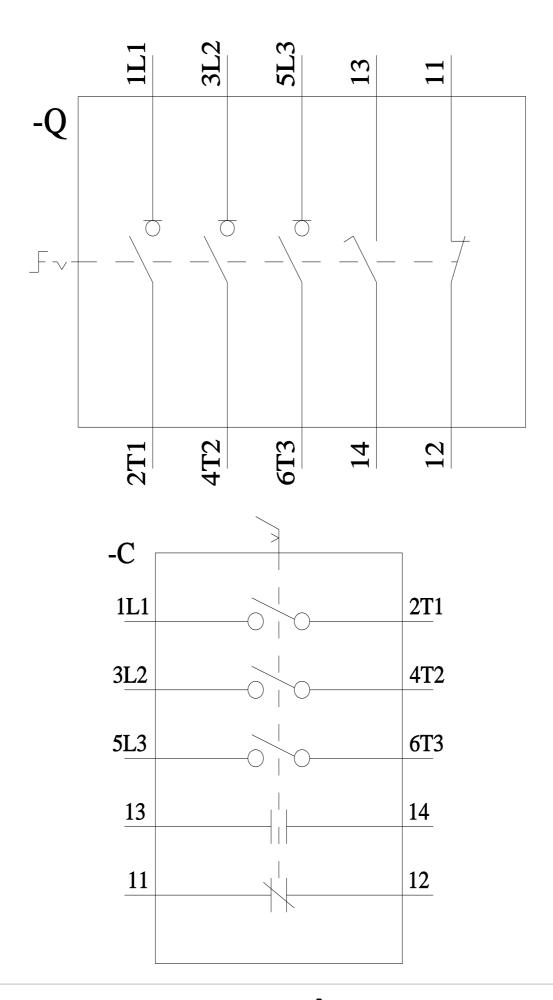
http://www.siemens.com/specifications











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