



SENTRON, Switch disconnecter 3LD, emergency switching-off switch, 6-pole, Iu: 63 A, operating power / at AC-23 A 400 V: 22 kW, Molded plastic encapsulation for metric cable gland, 1 NC, 1 NO, rotary operating mechanism, red/yellow

Model

product brand name	SENTRON
product designation	3LD Switch disconnecter
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 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	red
design of handle	rotary operating mechanism, red/yellow
type of the driving mechanism motor drive	No

General technical data

number of poles	6
number of poles note	PE + N
size of switch disconnecter	3
mechanical service life (switching cycles) typical	100 000
electrical endurance (switching 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	4.5 W
---	-------

Current

operational current rated value	63 A
operational current	
• at 40 °C rated value	63 A
• at 45 °C rated value	63 A
• at 50 °C rated value	63 A

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

63 A
63 A

Main circuit

operational current

- at AC-21 at 690 V rated value
- at AC-21 A at 240 V rated value
- at AC-21 A at 400 V rated value
- at AC-21 A at 440 V rated value
- at AC-23 A at 400 V rated value

63 A
63 A
63 A
63 A
43 A

operating power

- 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

11 kW
22 kW
22 kW
19 kW
11 kW
19 kW
15 kW

Auxiliary circuit

number of CO contacts for auxiliary contacts
number of NC contacts for auxiliary contacts
number of NO contacts for auxiliary contacts
operating voltage of auxiliary contacts at AC maximum
continuous current of the auxiliary contact rated value
insulation voltage of the auxiliary switch rated value

0
1
1
500 V
10 A
500 V

Suitability

suitability for use

- main switch
- switch disconnect
- EMERGENCY OFF switch
- safety switch
- maintenance/repair switch

Yes
Yes
Yes
Yes
Yes

Product details

product feature can be locked into OFF position

Yes

accessories

product extension optional

- motor drive
- voltage trigger

No
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

50 kA

let-through current with closed switch

- at 240 V for combination switch + gG fuse maximum
 - at 440 V for combination switch + gG fuse maximum
 - at 690 V for combination switch + gG fuse maximum
- permissible

6 kA
6 kA
6 kA

I²t value with closed switch

- at 240 V for combination switch + gG fuse maximum
- at 440 V for combination switch + gG fuse maximum
- at 690 V for combination switch + gG fuse maximum

21 kA².s
21 kA².s
21 kA².s

design of the fuse link

- for short-circuit protection of the main circuit required
- for short-circuit protection of the auxiliary switch required

fuse gL/gG: 63 A
fuse gL/gG: 10 A

operational current of upstream fuse rated value

63 A

according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	63 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	40
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	50
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	175 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid	
• maximum • minimum	6 14
type of connectable conductor cross-sections for copper conductor	
• solid • finely stranded with core end processing • stranded	1x (2,5...35mm²) 1x (2,5...16 mm²) 1x (2,5...35mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid • finely stranded with core end processing • stranded	lateral auxiliary switch 2x (0,75 ... 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 ... 2,5mm²) lateral auxiliary switch 2x (0,75 ... 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm² 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 • 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	2 138 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
--------------------------	---------------------------	-------------------	-------------------



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=3LD2566-4VD53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2566-4VD53>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2566-4VD53

CAX-Online-Generator

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

Tender specifications

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





