



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, Iu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	EMERGENCY-STOP switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	front mounted
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	3
size of switch disconnector	1
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, 3R, 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	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		4 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	
Suitability		
suitability for use		
• main switch	Yes	
• switch disconnector	Yes	
• EMERGENCY OFF switch	Yes	
• safety switch	Yes	
• maintenance/repair switch	Yes	
Product details		
product feature can be locked into OFF position	Yes	
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	2	
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	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	
I _{2t} value with closed switch		
• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s	
• at 440 V for combination switch + gG fuse maximum	2.5 kA2.s	
• at 690 V for combination switch + gG fuse maximum	3 kA2.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	20 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	
•	10
•	18
type of connectable conductor cross-sections for copper conductor	
• solid	1x (1...6mm ²)
• finely stranded with core end processing	1x (1...4mm ²)
• stranded	1x (1.6mm ²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 ... 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 ... 2,5mm ²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 ... 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
• stranded	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	box terminal
• for auxiliary contacts	connection terminals

Mechanical Design	
height	84 mm
width	67 mm
depth	92.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
• 4-hole front mounting	Yes
• front mounting with central attachment	No
• rail mounting	No
net weight	215 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	



[Confirmation](#)



General Product Approval	Marine / Shipping	other
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[Miscellaneous](#)



[Confirmation](#)

[Miscellaneous](#)

Environment

[Environmental Con-](#)

[Environmental Con-](#)

Further information

Information on the packaging

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

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=3LD2003-1TP53>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2003-1TP53>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2003-1TP53

CAx-Online-Generator

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

Tender specifications

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





