



SENTRON, Switch disconnecter 3LD, main switch, 4-pole, Iu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, black, 4-hole mounting of the handle

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
design of the actuating element	Short rotary knob
design of handle	rotary operating mechanism, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	4
type of device	fixed mounting
type of switch	front mounted
size of switch disconnecter	1
mechanical service life (switching cycles) / typical	100 000
electrical endurance (switching cycles) at AC-23 A / at 690 V	6 000
I ² t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	3 kA ² .s
let-through I ² t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 kA ² .s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
surge voltage resistance / rated value	6 kV
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 per conductor / typical	0.5 W 1 W
Current	
operational current at 40 °C / rated value at 45 °C / rated value at 50 °C / rated value at 55 °C / rated value	16 A 16 A 16 A 16 A

at AC / rated value	16 A
at AC-23 A / at 400 V / rated value	16 A
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 440 V / rated value	16 A
operational current / of upstream fuse / rated value	20 A
let-through current / with closed switch	
at 440 V / for combination switch + gG fuse / maximum	3 kA
at 690 V / for combination switch + gG fuse / maximum permissible	3 kA
Main circuit	
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
operational current / rated value	16 A
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
Appearance	
color / of the actuating element	black
Product details	
product feature	
can be locked into OFF position	Yes
number of bracket locks / maximum	3
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	8 mm
product extension / optional	
motor drive	No
voltage trigger	No
Short circuit	
conditional short-circuit current / with line-side fuse protection	
at 690 V / by gG fuse / rated value	50 kA
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
Number	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	1
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	1
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
AWG number / as coded connectable conductor cross section / solid	
maximum	10
minimum	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
Requirements	
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
Mechanical Design	
height	84 mm
width	67 mm
depth	92.5 mm
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	243 g
Environmental conditions	
ambient temperature / during operation	
minimum	-25 °C
maximum	55 °C
ambient temperature / during storage / minimum	-25 °C
General Product Approval	



[Confirmation](#)



[Miscellaneous](#)

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



[Environmental Confirmations](#)

other

[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=3LD2003-2EP51>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3LD2003-2EP51>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2003-2EP51

CAX-Online-Generator

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

Tender specifications

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



