SIEMENS

Data sheet 3LD2003-2EP53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4- pole, lu: 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	4	
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
• at AC-23 A at 400 V rated value operating power	IVA
at AC-23 A at 240 V rated value	4 kW
at AC-23 A at 240 V rated value at AC-23 A at 400 V rated value	8 kW
at AC-23 A at 400 V rated value at AC-23 A at 440 V rated value	7.5 kW
• at AC-23 A at 440 V rated value	8 kW
at AC-25 A at 690 V rated value at AC-3 at 240 V rated value	3 kW
at AC-3 at 400 V rated value	6 kW
at AC-3 at 400 V rated value at AC-3 at 690 V rated value	5.5 kW
Auxiliary circuit	5.5 KVV
	0
number of CO contacts for auxiliary contacts	1
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	500 V
operating voltage of auxiliary contacts at AC maximum continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	300 V
	Voa
suitability for use main switch	Yes Yes
suitability for use SWEDGENCY OFF switch	Yes
suitability for use EMERGENCY OFF switch	
suitability for use safety switch	Yes Yes
suitability for use maintenance/repair switch	tes
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	1
number of connectable NO contacts for auxiliary contacts attachable maximum	1
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	5014
at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	2 kA
at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gC fuse maximum	3 kA
at 440 V for combination switch + gG fuse maximum at 600 V for combination switch + gG fuse maximum	3 kA
 at 690 V for combination switch + gG fuse maximum permissible 	3 kA
I2t 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	10.1
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	5 kA

UL 508/UL 60947-4-1	
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 (16mm²)
 finely stranded with core end processing 	1x (14mm²)
stranded	1x (16mm²)
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	84 mm
width	67 mm
depth	93 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	237 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	Maritimo application

General Product Approval

Maritime application







Miscellaneous





other

Environment



Confirmation

Environmental Confirmations

Environmental Con-<u>firmations</u>

Further information

Information on the packaging https://support.industry.siemens.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,...)

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

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2003-2EP53

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2003-2EP53

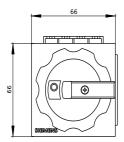
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) https://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2003-2EP53

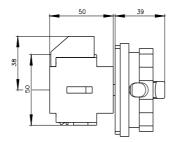
CAx-Online-Generator

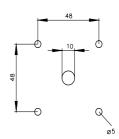
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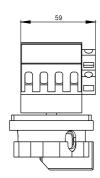
Tender specifications

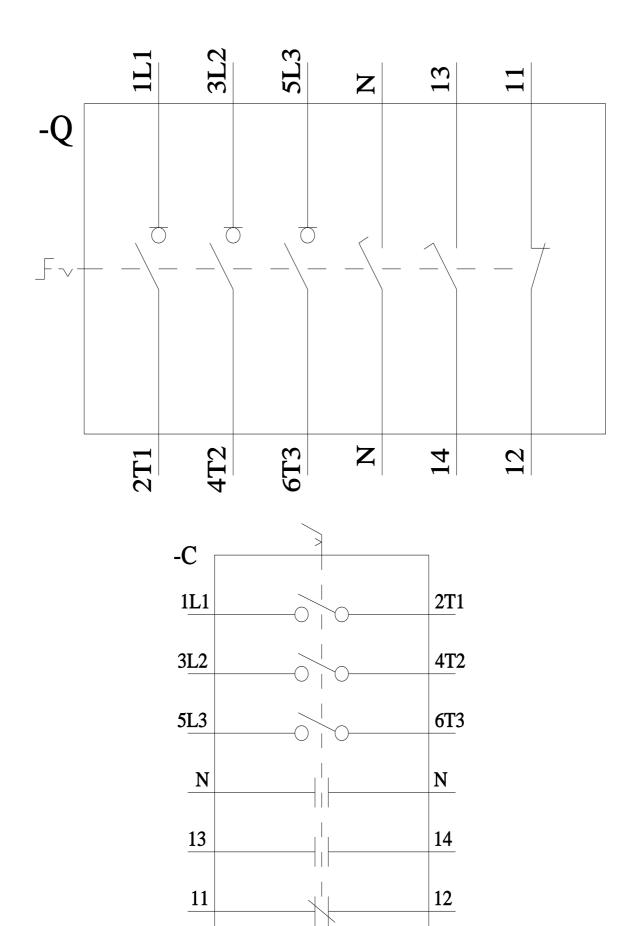
https://www.siemens.com/specifications











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