SIEMENS

Data sheet 3LD2103-1TL51



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 25 A, Operating power / at AC-23 A at 400 V: 9.5 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle

Model				
product brand name	SENTRON			
product designation	3LD Switch disconnector			
design of the product	Main switch			
display version for switch position indicator manual	1 ON - 0 OFF			
operation				
type of switch	front mounted			
design of the actuating element	Short rotary knob			
color of the actuating element	black			
design of handle type of the driving mechanism motor drive	rotary operating mechanism, black No			
General technical data	NO			
number of poles	4			
size of switch disconnector	2			
mechanical service life (operating cycles) typical	100 000			
electrical endurance (operating cycles) • at AC-23 A at 690 V	6 000			
	50 1/h			
operating frequency maximum degree of pollution	3			
	3			
Voltage	000.1/			
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	090 V			
minimum	50 Hz			
• maximum	60 Hz			
Protection class	00 112			
	IDOS			
protection class IP	IP65			
degree of protection NEMA rating protection class IP on the front	1, 3R, 4X, 12 IP65			
<u> </u>	IF UJ			
Dissipation	4.41W			
power loss [W] for rated value of the current at AC in hot operating state per pole	1.1 W			
Current				
operational current rated value	25 A			
operational current				
 at 40 °C rated value 	25 A			
 at 45 °C rated value 	25 A			
 at 50 °C rated value 	25 A			
● at 55 °C rated value	25 A			

Main circuit operational current • at AC-21 at 690 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-23 A at 440 V rated value 20 A operating power • at AC-23 A at 240 V rated value 10 kW • at AC-23 A at 440 V rated value 10 kW • at AC-23 A at 440 V rated value 9.5 kW • at AC-33 A at 690 V rated value 10 kW • at AC-3 at 240 V rated value 4 kW • at AC-3 at 690 V rated value 4 kW • at AC-3 at 690 V rated value 7.5 kW Auxillary circuit number of CO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 continuous current of the auxiliary contacts 10 A insulation voltage of the auxiliary switch rated value insulation voltage of the auxiliary switch rated value 500 V Suitability suitability for use • main switch • main switch • switch disconnector • EMERGENCY OFF switch No	
operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 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 400 V rated value • at AC-21 A at 400 V rated value • at AC-23 A at 400 V rated value operating power • at AC-23 A at 240 V rated value • at AC-23 A at 240 V rated value • at AC-23 A at 400 V rated value • at AC-23 A at 400 V rated value • at AC-23 A at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 240 V rated value • at AC-3 at 240 V rated value • at AC-3 at 240 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 690 V rated value • at AC-3 at 690 V rated value or at AC-3 at 690 V rated value • at AC-3 at 690 V rated value • at AC-3 at 690 V rated value 7.5 kW Auxiliary circuit number of NC contacts for auxiliary contacts onumber of NC 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 insulation voltage of the auxiliary switch rated value • main switch • switch disconnector Yes	
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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 operating power at AC-23 A at 240 V rated value at AC-23 A at 240 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 690 V rated value at AC-3 at 690 V rated value rumber of CO contacts for auxiliary contacts number of NO 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 suitability suitability suitability suitability for use main switch Yes	
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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-3 A at 440 V rated value • at AC-3 A at 490 V rated value • at AC-3 A at 690 V rated value • at AC-3 at 240 V rated value • at AC-3 at 240 V rated value • at AC-3 at 690 V rated value • at AC-3 at 690 V rated value • at AC-3 at 690 V rated value • at AC-3 at 690 V rated value Auxiliary circuit number of CO contacts for auxiliary contacts number of NC 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 • main switch • switch disconnector 5 kW 4 kW 5 kW 6 to	
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insulation voltage of the auxiliary switch rated value 500 V Suitability suitability for use • main switch • switch disconnector Yes	
Suitability suitability for use • main switch • switch disconnector Yes	
suitability for use • main switch • switch disconnector Yes	
main switchswitch disconnectorYes	
• switch disconnector 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 2	
attachable maximum	
number of connectable NO contacts for auxiliary contacts 2 attachable maximum	
number of connectable CO contacts for auxiliary contacts 0	
attachable maximum	
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 a at 600 V by aC fuce rated value. 50 kA	
at 690 V by gG fuse rated value 50 kA let-through current with closed switch	
let-through current with closed switch ● at 240 V for combination switch + gG fuse maximum 3.5 kA	
• at 440 V for combination switch + gG fuse maximum 3.5 kA 3.5 kA	
• at 690 V for combination switch + gG fuse maximum 4 kA	
permissible	
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum 4 kA2.s	
• at 440 V for combination switch + gG fuse maximum 4 kA2.s	
at 690 V for combination switch + gG fuse maximum 4 kA2.s	
design of the fuse link	
 for short-circuit protection of the main circuit fuse gL/gG: 25 A 	
• for short-circuit protection of the auxiliary switch fuse gL/gG: 10 A	
required	
operational current of upstream fuse rated value 25 A	

according UL				
operational current at AC according to UL 508/UL 60947-	25 A			
4-1 rated value				
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	10			
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	15			
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	8			
• minimum	14			
type of connectable conductor cross-sections for copper conductor				
• solid	1x (1,516mm²)			
 finely stranded with core end processing 	1x (1,510mm²)			
• stranded	1x (1,516mm²)			
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	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	236 g			
Environmental conditions				
ambient temperature during operation	07.00			
• minimum	-25 °C			
• maximum	55 °C			
ambient temperature during storage	25.00			
• minimum	-25 °C			
• maximum	55 °C			
General Product Approval				



Confirmation







Miscellaneous

General Product Approval Declaration of Conformity	Test Certificates	Marine / Shipping	
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Special Test Certificate





Marine / Shipping

other



Miscellaneous

Environmental Confirmations

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=3LD2103-1TL51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2103-1TL51

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

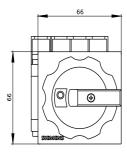
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2103-1TL51

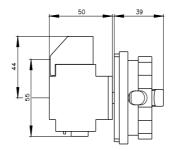
CAx-Online-Generator

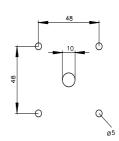
http://www.siemens.com/cax

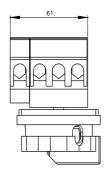
Tender specifications

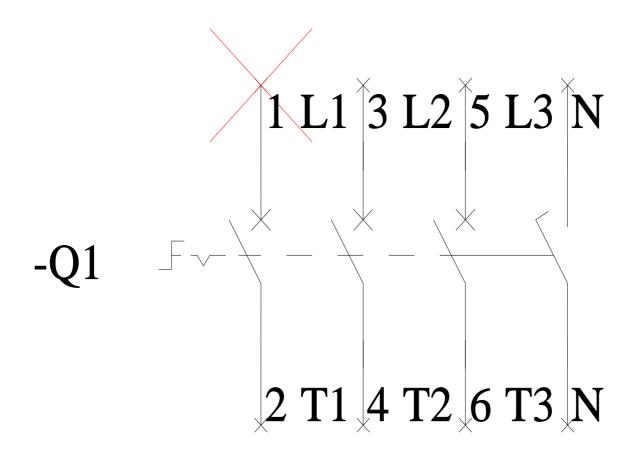
http://www.siemens.com/specifications











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