SIEMENS

Data sheet

3LD2103-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-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 operation	1 ON - 0 OFF
type of switch	front mounted
design of the actuating element	Short rotary knob
color of the actuating element	black
design of handle	rotary operating mechanism, black
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
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
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	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 400 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-21 A at 440 V rated value 25 A • at AC-23 A at 400 V rated value 20 A operating power • at AC-23 A at 240 V rated value • at AC-23 A at 240 V rated value 5 kW
operational current25 A• at AC-21 at 690 V rated value25 A• at AC-21 A at 240 V rated value25 A• at AC-21 A at 400 V rated value25 A• at AC-21 A at 440 V rated value25 A• at AC-23 A at 400 V rated value20 Aoperating power
• at AC-21 at 690 V rated value25 A• at AC-21 A at 240 V rated value25 A• at AC-21 A at 400 V rated value25 A• at AC-21 A at 440 V rated value25 A• at AC-23 A at 400 V rated value20 Aoperating power5 kW
 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 440 V rated value 25 A at AC-23 A at 400 V rated value 20 A operating power at AC-23 A at 240 V rated value 5 kW
 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 20 A operating power at AC-23 A at 240 V rated value 5 kW
 at AC-21 A at 440 V rated value at AC-23 A at 400 V rated value 20 A operating power at AC-23 A at 240 V rated value 5 kW
• at AC-23 A at 400 V rated value 20 A operating power • at AC-23 A at 240 V rated value 5 kW
operating power • at AC-23 A at 240 V rated value 5 kW
at AC-23 A at 240 V rated value 5 kW
at AC-23 A at 400 V rated value 10 kW
• at AC-23 A at 440 V rated value 9.5 kW
• at AC-23 A at 690 V rated value 10 kW
• at AC-3 at 240 V rated value 4 kW
• at AC-3 at 400 V rated value 8 kW
• at AC-3 at 690 V rated value 7.5 kW
Auxiliary circuit
number of CO contacts for auxiliary contacts 0
number of NC contacts for auxiliary contacts 0
number of NO contacts for auxiliary contacts 0
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 disconnector Yes
EMERGENCY OFF switch No
• 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 3
attachable maximum
number of connectable NO contacts for auxiliary contacts 3 attachable maximum 3
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
orat 690 V by gG fuse rated value 50 kA
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 3.5 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 required fuse gL/gG: 10 A
operational current of upstream fuse rated value 25 A

according UL	
operational current at AC according to UL 508/UL 60947- 4-1 rated value	25 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	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 (1,510mm ²)
• stranded	1x (1,516mm²)
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	Switch 17 (0,75 2,0mm)
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 method4-hole front mounting	Yes
 front mounting with central attachment 	No
rail mounting	No
net weight	189 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	
<u>Confirmation</u>	Miscellaneous
General Product Approval Declaration of Conformity	Test Certificates Marine / Shipping





Special Test Certificate





Marine / Shipping



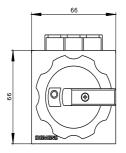
Miscellaneous

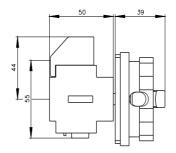
other

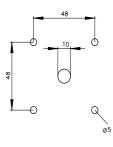
Environmental Confirmations

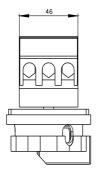
Further information

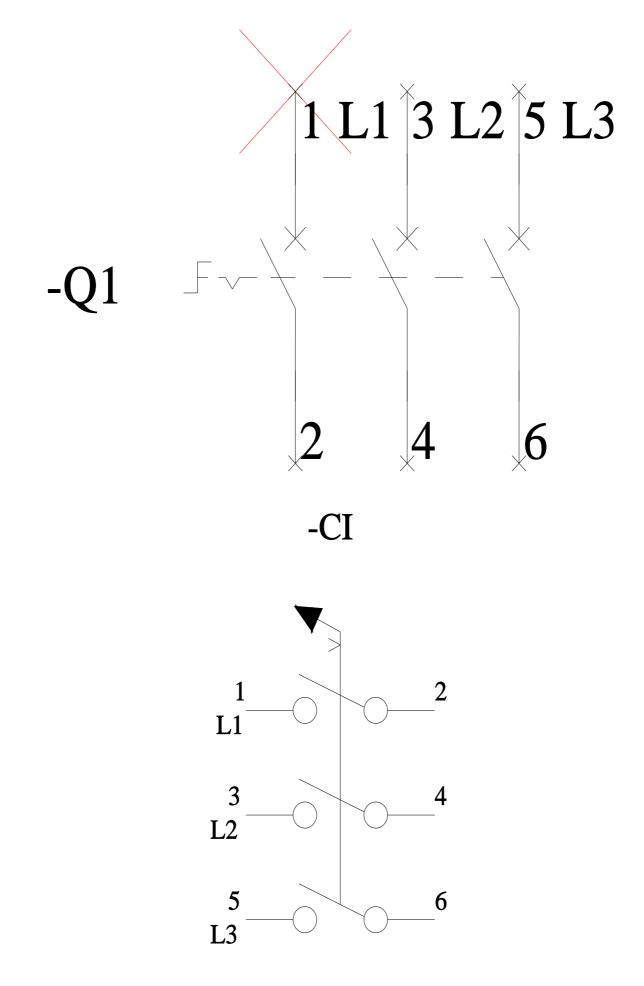
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