SIEMENS

Data sheet

3LD2103-1TP53



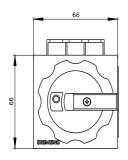
SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

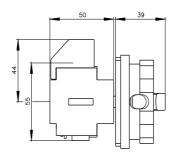
product brand name SENTRON product designation Switch disconnector design of the product EMERGENCY-STOP switch display version for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element Front mounted color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Concort technical data	Model				
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 Shoth rotary knob color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Genoral technical data	product brand name	SENTRON			
display version for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design 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 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value operating requency rated value 690 V operating requency rated value 690 V operating voltage 64 kV operating requency rated value 690 V operating frequency rated value 60 Hz operating frequency rated value 60 Hz	product designation	Switch disconnector			
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 number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 V operating voltage e at AC rated value 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W op	design of the product	EMERGENCY-STOP switch			
design of the actuating element Fred 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	display version for switch position indicator manual operation	1 ON - 0 OFF			
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 number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 60 1/h degree of pollution 3 Voltage insulation voltage rated value insulation voltage rated value 690 V operating frequency maximum 60 V operating frequency maximum 60 V operating frequency maximum 60 V operating voltage resistance rated value 690 V operating voltage 6 kV operating frequency rated value 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W poverating state p	type of switch	front mounted			
design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No General technical data	design of the actuating element	Short rotary knob			
type of the driving mechanism motor drive No General tachnical data	color of the actuating element	red			
General technical data number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage resistance rated value 690 V surge voltage resistance rated value 690 V operating frequency maximum 60 kV operating voltage 6 kV operating trequency rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 1.3 R, 4X, 12	design of handle	rotary operating mechanism, red/yellow			
number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 • at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage	type of the driving mechanism motor drive	No			
size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency maximum 50 Hz operating frequency rated value 690 V operation class IP 12 protection class IP 1965 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W operating state per pole 1.1 W	General technical data				
mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V operating voltage 6 kV operating requency maximum 690 V surge voltage resistance rated value 690 V operating voltage 690 V • at AC rated value 690 V operating frequency rated value 690 V • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W	number of poles	3			
electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V operating yottage resistance rated value 690 V operating voltage resistance rated value 690 V operating voltage 690 V • at AC rated value 690 V operating requency rated value 690 V operating frequency rated value 690 V operation class IP IP65 Dissipation 1.1 W operationg state per pole 1.1 W	size of switch disconnector	2			
• at AC-23 A at 990 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 90 V • at AC rated value 690 V operating frequency rated value 6 90 V operating frequency rated value 1 , 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W porer loss [W] for rated value of the current at AC in hot operating state per pole	mechanical service life (operating cycles) typical	100 000			
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 6 kV operating frequency rated value 690 V operating requency rated value 690 V operating frequency rated value 1.1 X protection class IP 1.1 W protection class IP on the front 1.1 W operating state per pole 1.1 W	electrical endurance (operating cycles)				
degree of pollution 3 Voltage insulation voltage rated value 690 V insulation voltage resistance rated value 6 kV operating voltage 6 kV operating voltage 690 V operating voltage 690 V operating voltage 690 V operating frequency rated value 60 Hz Protection class Protection class IP protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation power loss IW] for rated value of the current at AC in hot operating state per pole Main circuit operational current	• at AC-23 A at 690 V	6 000			
Voltage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 kV • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class 1 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W operational current 0	operating frequency maximum	50 1/h			
insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 kV • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	degree of pollution	3			
surge voltage resistance rated value 6 kV operating voltage 690 V operating frequency rated value 690 V operating frequency rated value 60 Hz • minimum 50 Hz • maximum 60 Hz Protection class 10 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W	Voltage				
operating voltage 690 V • at AC rated value 690 V operating frequency rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class 100 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 11 W operating state per pole 1.1 W operating state per pole 1.1 W	insulation voltage rated value	690 V			
• at AC rated value 690 V operating frequency rated value 50 Hz • 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 IP65 Dissipation I11 W operating state per pole 1.1 W operating state per pole IP65	surge voltage resistance rated value	6 kV			
operating frequency rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W operating current IP65	operating voltage				
• minimum50 Hz• maximum60 HzProtection classIP65protection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65power loss [W] for rated value of the current at AC in hot operating state per pole1.1 WMain circuitoperational current	 at AC rated value 	690 V			
• maximum 60 Hz Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	operating frequency rated value				
Protection class protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	• minimum	50 Hz			
protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	• maximum	60 Hz			
degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation	Protection class				
protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	protection class IP	IP65			
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current	degree of protection NEMA rating	1, 3R, 4X, 12			
power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current 1.1 W	protection class IP on the front	IP65			
operating state per pole Main circuit operational current	Dissipation				
operational current		1.1 W			
	Main circuit				
• at AC-21 at 690 V rated value 25 A	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 240 V rated value	25 A			
• at AC-21 A at 400 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-23 A at 400 V rated value 20 A	• at AC-23 A at 400 V rated value	20 A			

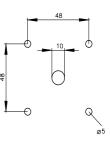
operating power	
operating power • at AC-23 A at 240 V rated value	5 kW
• at AC-23 A at 400 V rated value	10 kW
at AC-23 A at 440 V rated value	9.5 kW
 at AC-23 A at 690 V rated value 	9.5 kW
	4 kW
at AC-3 at 240 V rated value	
at AC-3 at 400 V rated value	8 kW
at AC-3 at 690 V rated value Auxiliary circuit	7.5 kW
	0
number of CO contacts for auxiliary contacts	
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 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 	3.5 kA
 at 440 V for combination switch + gG fuse maximum 	3.5 kA
 at 690 V for combination switch + gG fuse maximum permissible 	4 kA
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 required 	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

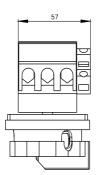
continuous current of up	ostream fuse according to UL	rated value	50 A			
type of fuse according to	type of fuse according to UL		RK5			
Connections						
AWG number as coded solid	connectable conductor cross	section				
• maximum		8				
• minimum		14				
type of connectable con conductor	ductor cross-sections for copp	ber				
 solid 			1x (1,516mm²)			
	ith core end processing		1x (1,510mm²)			
stranded type of connectable con contacts	ductor cross-sections for auxi	liary	1x (1,	516mm²)		
• solid				l auxiliary switch 2x (0,75 2,5mm²)	2,5mm²), 1x 4mm²; froi	nt auxiliary switch 1x
 finely stranded w 	ith core end processing			l auxiliary switch 2x (0,75	1,5mm²), 1x 2,5mm²; fr	ront auxiliary switch 1x
 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 connect	ction					
• for main current of	circuit		box terminal			
 for auxiliary containing 	acts		conne	ection terminals		
Mechanical Design						
height		_	84 mr	n		
width			67 mr			
depth		92.5 mm				
type of device		fixed mounting				
fastening method		_	Built-I	n unit fixed-mounted vers	ion	
fastening method • 4-hole front mour	ating		Voc			
	•		Yes			
front mounting with central attachment rail mounting		No				
• rail mounting net weight		192 g				
Environmental condition	ns					
ambient temperature du		_	_			
• minimum			-25 °0	C		
maximum			55 °C			
ambient temperature du	iring storage					
• minimum	0		-25 °0	C		
 maximum 			55 °C			
General Product Appr	oval					
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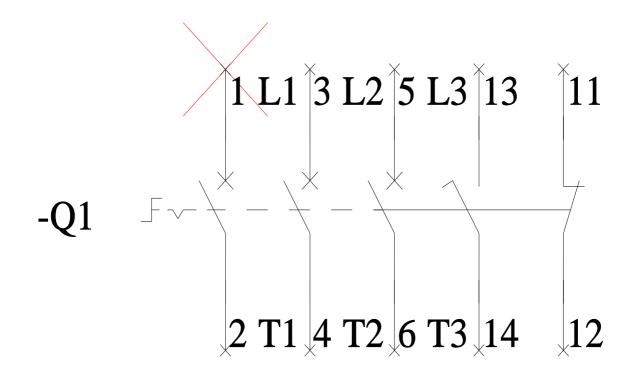
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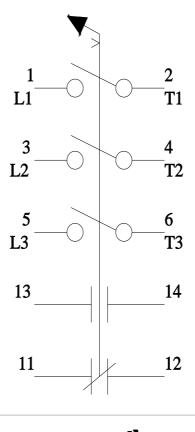








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