SIEMENS

Data sheet

3LD2022-1TL13

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, knob-operated mechanism, red/yellow, 4-hole mounting of the handle



Model			
Product brand name	SENTRON		
Product designation	3LD Switch disconnector		
Design of the product	EMERGENCY-STOP switch		
Display version / for switch position indicator manual operation	1 ON - 0 OFF		
Design of the operating mechanism	selector switch		
Design of handle	knob-operated mechanism, red/yellow		
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 disconnector	1		
Electrical endurance (switching cycles)			
• at AC-23 A / at 690 V	6 000		
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	2.5 kA2.s		

Let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 kA2.s		
Mechanical service life (switching cycles) / typical	100 000		
Operating frequency / maximum	50 1/h		
Type of fuse / according to UL	RK5		
Voltage			
Insulation voltage / rated value	690 V		
Surge voltage resistance / rated value	6 kV		
Current / at AC / rated value	16 A		
Operating voltage			
• at AC / at 50/60 Hz / rated value	690 V		
 at AC / at 50/60 Hz / acc. to UL 508 / rated value 	600 V		
Active power [hp] / at AC			
• at 480 V / acc. to UL 508 / rated value	7.5		
• at 600 V / acc. to UL 508 / rated value	10		
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		
• per conductor / typical	0.5 W		
Current			
Operating current			
• at AC-23 A / at 690 V / rated value	9 A		
• at AC-23 A / at 400 V / rated value	16 A		
	1071		
• at AC-22 A / at 690 V / rated value	16 A		
 at AC-22 A / at 690 V / rated value at AC-21 / at 690 V / rated value 			
	16 A		
• at AC-21 / at 690 V / rated value	16 A 16 A		
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value 	16 A 16 A 16 A		
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value 	16 A 16 A 16 A 16 A		
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value at AC-22 A / at 240 V / rated value 	16 A 16 A 16 A 16 A 16 A		
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 440 V / rated value 	16 A 16 A 16 A 16 A 16 A		
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 440 V / rated value at AC-23 A / at 240 V / rated value 	16 A 16 A 16 A 16 A 16 A 16 A		
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 440 V / rated value 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 	16 A 16 A 16 A 16 A 16 A 16 A 16 A		
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value at AC-22 A / at 240 V / rated value at AC-22 A / at 440 V / rated value at AC-23 A / at 240 V / rated value at AC-23 A / at 440 V / rated value 	16 A 16 A 16 A 16 A 16 A 16 A 16 A 16 A		

Let-through current / with closed switch	
• at 440 V / for combination switch + gG fuse /	3 kA
maximum	
• at 690 V / for combination switch + gG fuse /	3 kA
maximum permissible	
Short-time withstand current (Icw)	
 limited to 1 s / rated value 	340 A
• at 690 V / limited to 1 s / rated value	340 A
Main circuit	
Operating frequency	
• initial value	50 Hz
Full-scale value	60 Hz
Operating power	
at AC-23 A / at 240 V / rated value	4 kW
 at AC-23 A / at 400 V / at 50/60 Hz / rated value 	7.5 kW
• at AC-23 A / at 400 V / rated value	7.5 kW
• at AC-23 A / at 440 V / rated value	7.5 kW
• at AC-23 A / at 690 V / rated value	7.5 kW
• at AC-3 / at 240 V / rated value	3 kW
• at AC-3 / at 400 V / rated value	5.5 kW
• at AC-3 / at 690 V / rated value	5.5 kW
Operating current / rated value	16 A
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	500 V
value	
Suitability	
Suitability for use	
Main switch	Yes
 switch disconnector 	Yes
 EMERGENCY OFF switch 	Yes
 safety switch 	Yes
maintenance/repair switch	Yes
Appearance	
Color / of the actuating element	red

Product details	
 Product function / can be locked into OFF 	Yes
position	
Number of bracket locks / maximum	2
Hasp thickness / of the bracket locks / minimum	4 mm
Hasp thickness / of the bracket locks / maximum	6 mm
Product extension / optional	
• motor drive	No
Voltage trigger	No
Short circuit	
Short-time withstand current (SCCR) / at 600 V / acc.	5 kA
to UL 508	
Conditional short-circuit current / with line-side fuse	
protection	
• at 690 V / by gG fuse / rated value	50 kA
Number of connectable NC contacts / for auxiliary	2
contacts / attachable / maximum	
Number of connectable NO contacts / for auxiliary	2
contacts / attachable / maximum	
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 (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
Requirements	

 Design of the fuse link for short-circuit protection of the main circuit / required for short-circuit protection of the auxiliary switch / required 		fuse gL/gG: 20 A				
		fuse gL/gG: 10 A				
lechanical Design						
Height		66 mm				
Width		49 mm				
Depth		89.5 mm				
Mounting type		Built-in unit fixed-mounte	Built-in unit fixed-mounted version			
Mounting type		N.				
• front mounting with 4-hole a		Yes				
• front mounting with central	attachment	No				
rail mounting		No				
Net weight		175 g				
nvironmental conditions						
Ambient temperature / during ope	eration					
• minimum		-25 °C				
• maximum		55 °C				
Ambient temperature / during storage / minimum		-25 °C				
ertificates						
Reference code						
• acc. to DIN EN 61346-2		S				
• acc. to DIN EN 81346-2		SF				
General Product Approval				Declaration of Conformity		
		VDE	Miscellaneous	EG-Konf.		
Test Certific- atesShipping proval	Ap- other					
Special Test Certi- ficate	Miscellane	ous Environmental Con- firmations				

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/lowvoltage/catalogs https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2022-1TL13

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2022-1TL13

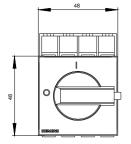
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2022-1TL13

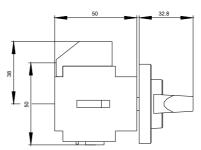
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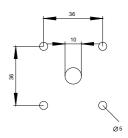
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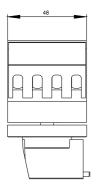
Tender specifications

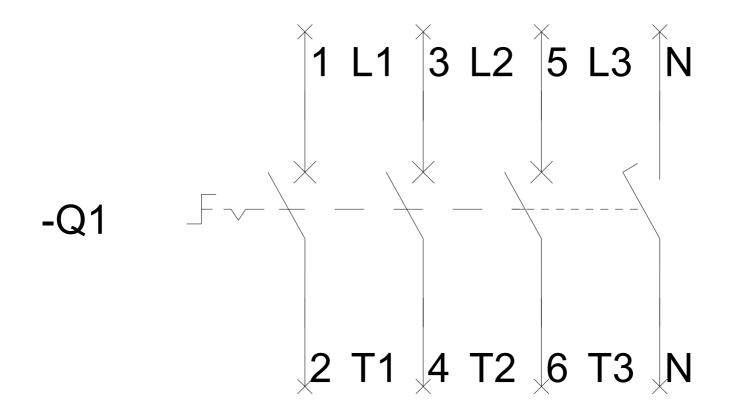
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