SIEMENS

Data sheet

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3LD2050-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, lu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, front-mounted, knob-operated mechanism, Red / yellow, central mounting 22.5 mm 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	1 ON - 0 OFF			
operation				
type of switch	front mounted			
design of the actuating element	selector switch			
color of the actuating element	red			
design of handle	knob-operated mechanism, red/yellow			
type of the driving mechanism motor drive	No			
General technical data				
number of poles	3			
size of switch disconnector	1			
mechanical service life (switching cycles) typical	100 000			
electrical endurance (switching 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			
Current				
operational current rated value	16 A			
operational current				
• at 40 °C rated value	16 A			
 at 45 °C rated value 	16 A			
• at 50 °C rated value	16 A			
• at 55 °C rated value	16 A			

 at AC rated value 	16 A
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
operating power	
• at AC-23 A at 240 V rated value	4 kW
 at AC-23 A at 400 V rated value 	8 kW
 at AC-23 A at 440 V rated value 	7.5 kW
 at AC-23 A at 690 V rated value 	8 kW
 at AC-3 at 240 V rated value 	3 kW
 at AC-3 at 400 V rated value 	6 kW
 at AC-3 at 690 V rated value 	5.5 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 	Yes
 safety switch 	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
accessories product extension optional • motor drive	No
product extension optional • motor drive	No
product extension optional	
product extension optional • motor drive • voltage trigger	No
product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts	No
product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts	No 2
product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts	No 2 2
product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum	No 2 2 0
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product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	No 2 2 2 0 2 4 6 mm 50 kA 3 kA
product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable CO contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks Short circuit conditional short-circuit current with line-side fuse protection • at 690 V by gG fuse rated value let-through current with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum	No 2 2 2 0 2 4 6 mm 50 kA 3 kA 3 kA
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according UL					
operational current at AC according to UL 508/UL 60	7- 16 A				
4-1 rated value operating voltage at AC at 50/60 Hz according to UL	600 V	600 V			
508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 50	JL 7.5	7.5			
60947-4-1 rated value active power [hp] at AC at 600 V according to UL 50	JL 10	10			
60947-4-1 rated value short-time withstand current (SCCR) at 600 V accord	g to 5 kA	5 kA			
UL 508/UL 60947-4-1 continuous current of upstream fuse according to UL	ated 50 A	50 A			
value type of fuse according to UL	RK5				
Connections					
AWG number as coded connectable conductor cross section solid					
• maximum	10				
• minimum	18				
type of connectable conductor cross-sections for cop conductor	er				
• solid	1x (16mm²)				
 finely stranded with core end processing 	1x (14mm²)				
stranded	1x (16mm²)				
type of connectable conductor cross-sections for aux contacts					
• solid	2x (0.75 2.5 m				
 finely stranded with core end processing 	2x (0.75 1.5 m				
• stranded	2x (0.75 2.5 m	m²), 1x 4 mm²			
type of electrical connection					
 for main current circuit 	box terminal				
for auxiliary contacts	connection termi	nals			
Mechanical Design		nals			
Mechanical Design height	66 mm	nals		_	
Mechanical Design height width	66 mm 49 mm	nals		_	
Mechanical Design height width depth	66 mm 49 mm 113.5 mm	nals	_		
Mechanical Design height width depth type of device	66 mm 49 mm 113.5 mm fixed mounting	_	ion		
Mechanical Design height width depth type of device fastening method	66 mm 49 mm 113.5 mm	_	ion		
Mechanical Design height width depth type of device fastening method fastening method	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g	_	ion		
Mechanical Design height width depth type of device fastening method fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g	_	ion		
Mechanical Design height width depth type of device fastening method fastening method fastening method e 4-hole front mounting e front mounting with central attachment e rail mounting net weight Environmental conditions ambient temperature during operation e maximum ambient temperature during storage	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C	_	ion		
Mechanical Design height width depth type of device fastening method fastening method e 4-hole front mounting e front mounting with central attachment e rail mounting net weight Environmental conditions ambient temperature during operation e maximum ambient temperature during storage e minimum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C -25 °C	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C -25 °C	_	ion		
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C -25 °C	_	ion	Miscellaneous	
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum ambient temperature during storage • minimum • maximum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C -25 °C	_	ion	Miscellaneous	
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum ambient temperature during storage • minimum • maximum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C -25 °C	_	ion	Miscellaneous	
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum ambient temperature during storage • minimum • maximum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C -25 °C	_		Miscellaneous	
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum ambient temperature during storage • minimum • maximum	66 mm 49 mm 113.5 mm fixed mounting Built-in unit fixed No Yes No 188 g -25 °C 55 °C -25 °C	_		Miscellaneous	
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Special Test Certificate





other

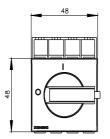
Miscellaneous

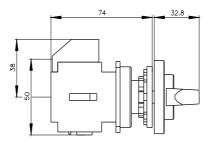
Environmental Confirmations

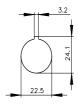
Further information

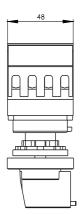
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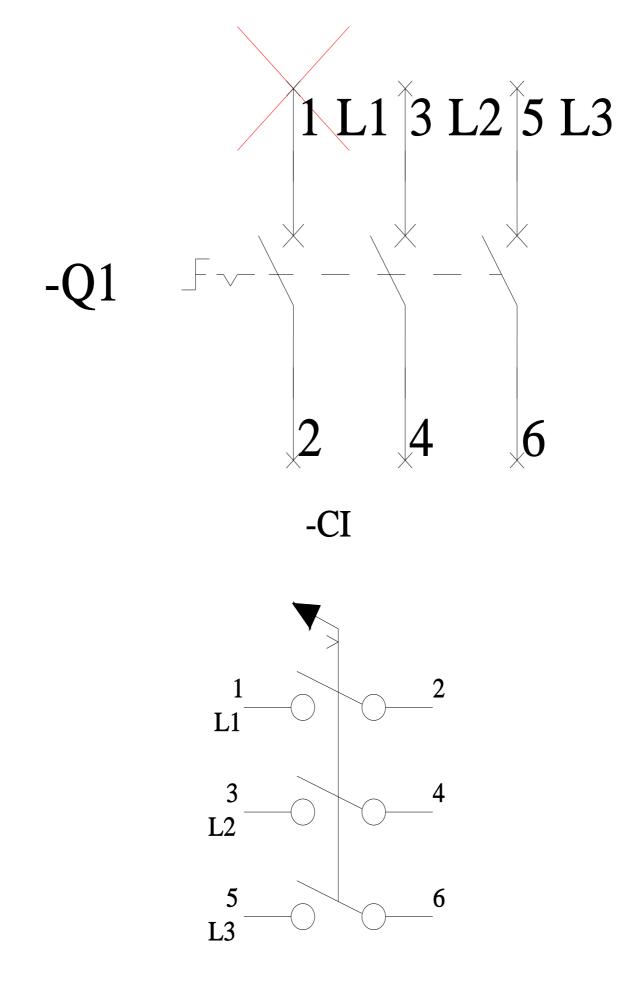
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