SIEMENS

Data sheet

3LD2504-3VK51



SENTRON, Switch disconnector 3LD, main switch, 6-pole, Iu: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, front-mounted, rotary operating mechanism, black, 4-hole mounting of the handle

Model				
product brand name	SENTRON			
product designation	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	6			
size of switch disconnector	3			
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	4.5 W			
Main circuit				
operational current				
• at AC-21 at 690 V rated value	63 A			
• at AC-21 A at 240 V rated value	63 A			
 at AC-21 A at 400 V rated value 	63 A			
 at AC-21 A at 440 V rated value 	63 A			
 at AC-23 A at 400 V rated value 	43 A			

operating power	22.111
• at AC-23 A at 240 V rated value	11 kW
 at AC-23 A at 400 V rated value 	22 kW
 at AC-23 A at 440 V rated value 	22 kW
 at AC-23 A at 690 V rated value 	19 kW
 at AC-3 at 240 V rated value 	11 kW
 at AC-3 at 400 V rated value 	19 kW
• at AC-3 at 690 V rated value	15 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 attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	3
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	6 kA
 at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum 	о ка 6 kA
0	
at 690 V for combination switch + gG fuse maximum permissible	6 kA
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	21 kA2.s
 at 440 V for combination switch + gG fuse maximum 	21 kA2.s
 at 690 V for combination switch + gG fuse maximum 	21 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit required 	fuse gL/gG: 63 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current of upstream fuse rated value	63 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	63 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	40
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	50
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	175 A					
	/pe of fuse according to UL				RK5			
Connections								
AWG number as coded solid	connectable conductor cr	oss section						
 maximum 			6					
 minimum 			14					
type of connectable cor	ductor cross-sections for	copper						
conductor								
• solid			1x (2,535mm²)					
 finely stranded with core end processing 			1x (2.5	16 mm²)				
stranded			1x (2,5	.35mm²)				
type of connectable cor contacts	ductor cross-sections for	auxiliary						
• solid			uxiliary switch 2x 2,5mm²)	(0,75 2,5mm²), 1x 4mm	² ; front auxiliary switch 1x			
• finely stranded with core end processing			lateral a 2,5mm²		(0,75 1,5mm²), 1x 2,5m	m ² ; front auxiliary switch 1x		
 stranded 	• 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	ction							
 for main current of 	for main current circuit			ninal				
 for auxiliary contacts 			connect	ion terminals				
Mechanical Design								
height			106 mm	1				
width			90 mm					
depth			110.5 m	ım				
type of device			fixed mo	ounting				
fastening method			Built-in ι	unit fixed-mounte	d version			
fastening method								
 4-hole front mour 	nting		Yes					
	ith central attachment		No					
 rail mounting 			No					
net weight			744 g					
Environmental conditio	ns							
ambient temperature du								
• minimum	0 1		-25 °C					
maximum			55 °C					
ambient temperature du	uring storage							
• minimum			-25 °C					
• maximum			_0 °C					
General Product App	roval		00 0			Declaration of Con- formity		
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Further information	to exit the Russian mark							

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Information on the packaging

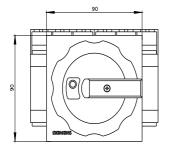
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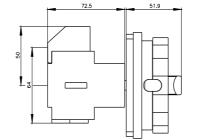
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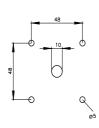
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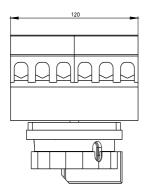
Tender specifications

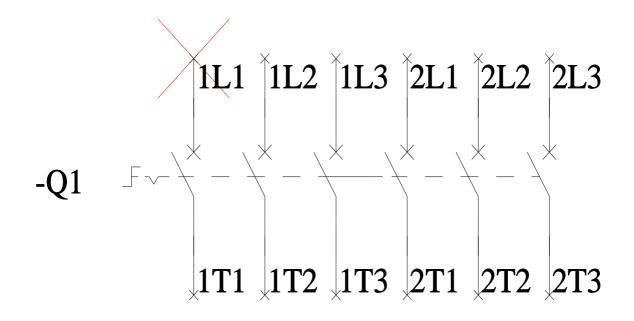
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