SIEMENS

Data sheet 3LD2504-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 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	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	3			
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	4.5 W			
Current				
operational current rated value	63 A			
operational current				
 at 40 °C rated value 	63 A			
 at 45 °C rated value 	63 A			
 at 50 °C rated value 	63 A			
 at 55 °C rated value 	63 A			

at AC rated value	63 A
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	
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	Voc
main switch switch disconnector	Yes Yes
switch disconnectorEMERGENCY OFF switch	No
safety switch	Yes
maintenance/repair switch	Yes
Product details	163
r roduct details	
product feature can be locked into OFF position	Voc
product feature can be locked into OFF position	Yes
accessories	Yes
accessories product extension optional	
accessories product extension optional motor drive	No
accessories product extension optional motor drive voltage trigger	No No
accessories product extension optional motor drive	No
accessories product extension optional	No No
product extension optional	No No 3
product extension optional	No No 3
product extension optional	No No 3 3
product extension optional	No No 3 3 0 3
product extension optional	No No 3 3
product extension optional	No No 3 3 0
product extension optional	No No 3 3 0
product extension optional	No No 3 3 0 3 4 8 mm
product extension optional	No No 3 3 0
product extension optional	No No 3 3 0 3 4 8 mm
product extension optional	No No 3 3 0 3 4 8 mm
product extension optional	No No 3 3 0 3 4 8 mm
product extension optional	No No 3 3 4 8 mm 50 kA 6 kA 6 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 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 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 • 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 • 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 No 3 3 4 8 mm 50 kA 6 kA 6 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 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 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 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum • at 240 V for combination switch + gG fuse maximum	No No 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 6 kA
product extension optional	No No 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 6 kA 21 kA2.s
product extension optional	No No 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 6 kA
product extension optional	No No 3 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s
product extension optional	No No 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 6 kA 21 kA2.s
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 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 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 240 V for combination switch + gG fuse maximum • at 240 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 • 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 No 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s 1 kA2.s
product extension optional	No No 3 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s
product extension optional	No No 3 3 0 3 4 8 mm 50 kA 6 kA 6 kA 6 kA 21 kA2.s 21 kA2.s 21 kA2.s 1 kA2.s

according UL			
operational current at AC according to UL 508/UL 60947-	63 A		
4-1 rated value 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 upstream fuse according to UL rated value	175 A		
type of fuse according to UL	RK5		
Connections			
AWG number as coded connectable conductor cross section solid			
• maximum	6		
• minimum	14		
type of connectable conductor cross-sections for copper conductor			
• solid	1x (2,535mm²)		
 finely stranded with core end processing 	1x (2.516 mm²)		
• stranded	1x (2,535mm²)		
type of connectable conductor cross-sections for auxiliary contacts			
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm switch 1x (0,75 2,5mm²)		
finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5m switch 1x 2,5mm²		
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm switch 1x (0,75 2,5mm²)	²; front auxiliary	
type of electrical connection			
for main current circuit for quality contacts	box terminal		
for auxiliary contacts	connection terminals		
Mechanical Design	100		
height	106 mm		
width	90 mm 110.5 mm		
depth type of device	fixed mounting		
fastening method	Built-in unit fixed-mounted version		
fastening method	Built III dille fixed filodified version		
4-hole front mounting	Yes		
front mounting with central attachment	No		
• rail mounting	No		
net weight	405 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		Declaration of Conformity	





Confirmation







Declaration of Conformity	Test Certificates	Marine / Shipping	other



Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2504-0TK51

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3LD2504-0TK51

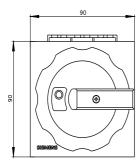
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2504-0TK51

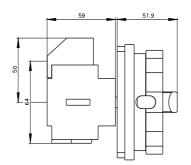
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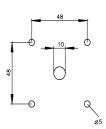
http://www.siemens.com/cax

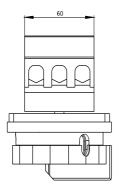
Tender specifications

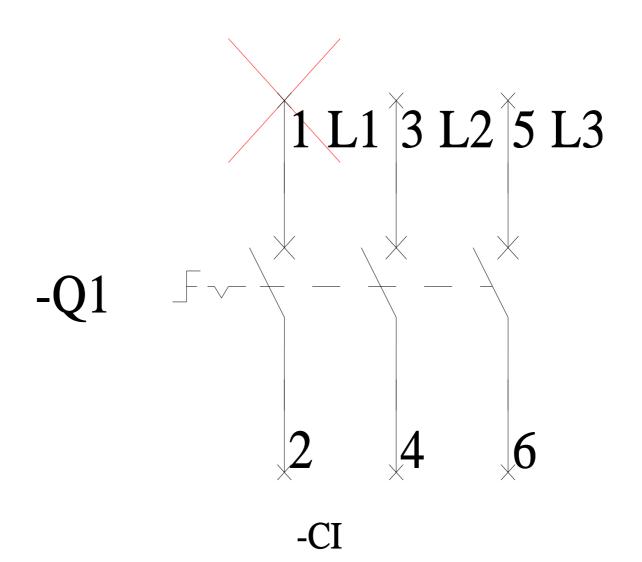
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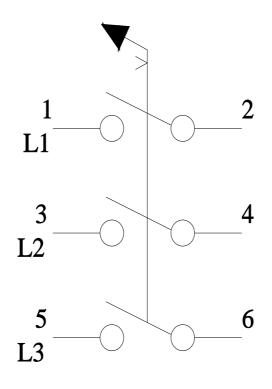












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