SIEMENS

Data sheet 3LD2504-1TP51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 63 A, Operating power / at AC-23 A at 400 V: 22 kW, front-mounted, 1 NC, 1 NO, 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 (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
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

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• at 690 V for combination switch + gG fuse maximum 21 kA2.s design of the fuse link		
design of the fuse link		
	_	
		fuse gL/gG: 63 A
required		
• for short-circuit protection of the auxiliary switch fuse gL/gG: 10 A		fuse gL/gG: 10 A
required	•	
operational current of upstream fuse rated value 63 A	anarational aurrent of unatroom fuce reted value	62 A

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)	² ; front auxiliary
 finely stranded with core end processing 	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5m switch 1x 2,5mm²	m²; front auxiliary
• 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	box terminal	
for auxiliary contacts	connection terminals	
Mechanical Design		
height	106 mm	
width	90 mm	
depth	110.5 mm	
type of device	fixed mounting	
fastening method	Built-in unit fixed-mounted version	
fastening method	Yes	
4-hole front mountingfront mounting with central attachment	No	
rail mounting	No	
net weight	NO 423 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	other

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3LD2504-1TP51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2504-1TP51

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

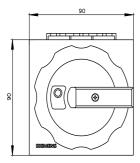
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2504-1TP51

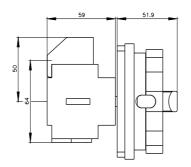
CAx-Online-Generator

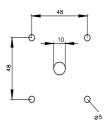
http://www.siemens.com/cax

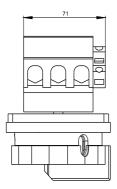
Tender specifications

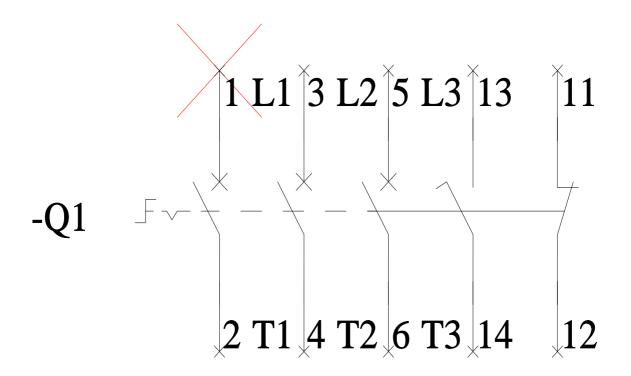
http://www.siemens.com/specifications











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