SIEMENS

Data sheet 3LD2504-3VK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 6- pole, lu: 63 A, operating power / at AC-23 A 400 V: 22 kW, front-mounted, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

Model	
product brand name	SENTRON
product designation	Switch disconnector
design of the product	EMERGENCY-STOP 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	red
design of handle	rotary operating mechanism, red/yellow
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

e at AC-23 A at 240 V rated value	
at AC-23 A at 480 V rated value at AC-32 A at 890 V rated value 19 kW at AC-3 at 240 V rated value 11 kW at AC-3 at 400 V rated value 15 kW Auxiliary circuit number of CO contacts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 10 A Suitability	
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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 6 kA	
at 440 V for combination switch + aG fuse maximum 6 kA	
▼ at 1770 V TOI COMBINIATION - 90 TOSC MAXIMUM O MA	
• 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 63 A rated value	
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	
active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value	
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	
short-time withstand current (SCCR) at 600 V according to UL 5 kA 508/UL 60947-4-1	
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
•	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 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
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	
4-hole front mounting	Yes
 front mounting with central attachment 	No
rail mounting	No
net weight	760 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
	55 °C
• maximum	65 6

General Product Approval

Confirmation











Marine / Shipping other Environment

Lloyd's Register uis <u>Confirmation</u> <u>Miscellaneous</u>

Environmental Confirmations Environmental Confirmations

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=3LD2504-3VK53

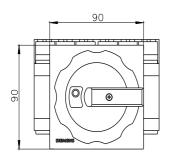
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2504-3VK53

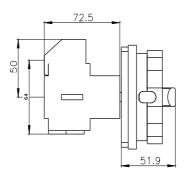
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax en.aspx?mlfb=3LD2504-3VK53

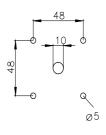
CAx-Online-Generator

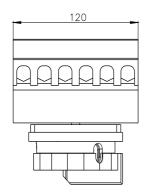
http://www.siemens.com/cax

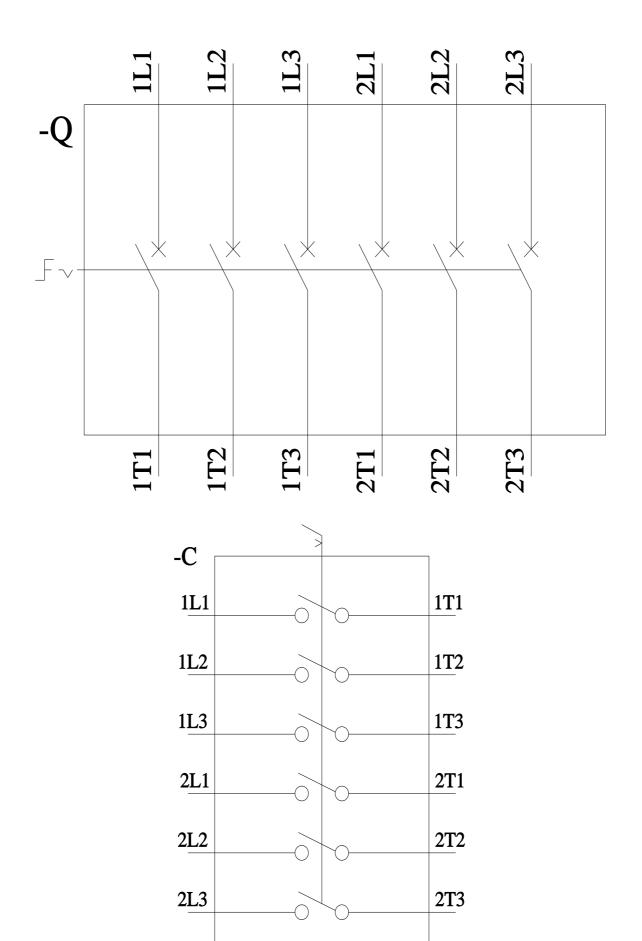
Tender specifications
http://www.siemens.com/specifications











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