SIEMENS

Data sheet 3LD2804-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 125 A, Operating power / at AC-23 A at 400 V: 45 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	3	
size of switch disconnector	4	
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	12 W	
Main circuit		
operational current		
• at AC-21 at 690 V rated value	125 A	
• at AC-21 A at 240 V rated value	125 A	
• at AC-21 A at 400 V rated value	125 A	
• at AC-21 A at 440 V rated value	125 A	

at AC-23 A at 400 V rated value operating power at AC-23 A at 240 V rated value 22 kW	
▼ at AC-23 A at 240 V Tated Value 22 KVV	
at AC-23 A at 400 V rated value 45 kW	
• at AC-23 A at 690 V rated value 37 kW	
• at AC-3 at 240 V rated value 22 kW	
• at AC-3 at 400 V rated value 37 kW	
at AC-3 at 690 V rated value 30 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	
suitability for use switch disconnector Yes	
suitability for use EMERGENCY OFF switch No	
suitability for use safety switch Yes	
suitability for use maintenance/repair switch Yes	
Product details	
product feature can be locked into OFF position Yes	
accessories	
product extension optional	
• motor drive	
• voltage trigger No	
number of connectable NC contacts for auxiliary contacts attachable maximum	
number of connectable NO contacts for auxiliary contacts attachable maximum 3	
number of connectable CO contacts for auxiliary contacts attachable maximum	
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 20 kA	
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum 10 kA	
• at 440 V for combination switch + gG fuse maximum 10 kA	
at 690 V for combination switch + gG fuse maximum permissible 10 kA	
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum 104 kA2.s	
• at 440 V for combination switch + gG fuse maximum 104 kA2.s	
• at 690 V for combination switch + gG fuse maximum 104 kA2.s	
design of the fuse link	
• for short-circuit protection of the main circuit required fuse gL/gG: 125 A	
• for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A	
operational current of upstream fuse rated value 125 A	
according UL	
operational current at AC according to UL 508/UL 60947-4-1 125 A rated value	
operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 60947-4-1 rated value	
active power [hp] at AC at 480 V according to UL 508/UL 75	
60947-4-1 rated value	
active power [hp] at AC at 600 V according to UL 508/UL 100 100 100 100 100 100 100 100 100 10	

UL 508/UL 60947-4-1		
continuous current of upstream fuse according to UL rated value	200 A	
type of fuse according to UL	RK5	
Connections		
AWG number as coded connectable conductor cross section solid maximum		
•	1	
•	12	
type of connectable conductor cross-sections for copper conductor		
• solid	1x (450mm²)	
 finely stranded with core end processing 	1x (435mm²)	
• stranded	1x (450mm²)	
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	112.5 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	490 g	
Environmental conditions		
ambient temperature during operation		
• minimum	-25 °C	
• maximum	55 °C	
ambient temperature during storage		
• minimum	-25 °C	
• maximum	55 °C	
Approvals Certificates		

General Product Approval







Confirmation





General Product Approval

Marine / Shipping

other

Miscellaneous







Miscellaneous

Confirmation

Environment

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=3LD2804-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2804-0TK51

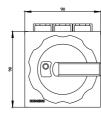
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2804-0TK51

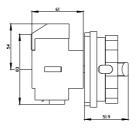
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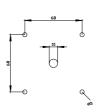
http://www.siemens.com/cax

Tender specifications

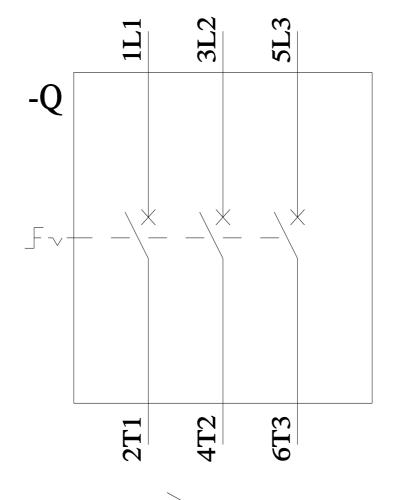
http://www.siemens.com/specifications

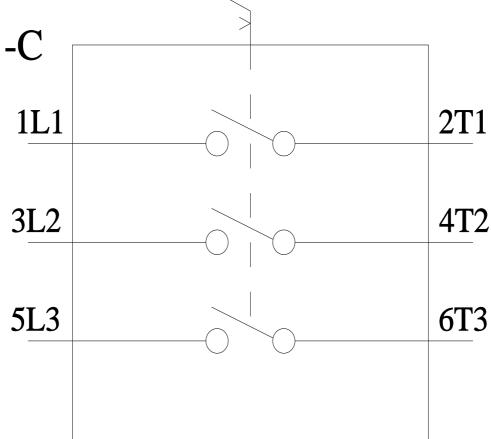












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