SIEMENS

Data sheet 3LD2704-1TP51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 100 A, Operating power / at AC-23 A at 400 V: 37 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	
design of the actuating element	Short rotary knob	
design of handle	rotary operating mechanism, black	
type of the driving mechanism / motor drive	No	
General technical data		
number of poles	3	
type of device	fixed mounting	
type of switch	front mounted	
size of switch disconnector	4	
mechanical service life (switching cycles) / typical	100 000	
electrical endurance (switching cycles)		
• at AC-23 A / at 690 V	6 000	
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	64 kA2.s	
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	64 kA2.s	
operating frequency / maximum	50 1/h	
Voltage		
insulation voltage / rated value	690 V	
surge voltage resistance / rated value	6 kV	
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 	7.5 W	
per conductor / typical	8 W	
Current		
operational current		
• at 40 °C / rated value	100 A	
• at 45 °C / rated value	100 A	
at 50 °C / rated value	100 A	
• at 55 °C / rated value	100 A	

at AC / rated value	100 A
at AC-23 A / at 400 V / rated value	70 A
at AC-21 / at 690 V / rated value	100 A
at AC-21 A / at 240 V / rated value	100 A
at AC-21 A / at 440 V / rated value	100 A
operational current / of upstream fuse / rated value	100 A
let-through current / with closed switch	
 at 440 V / for combination switch + gG fuse / 	10 kA
maximum	
 at 690 V / for combination switch + gG fuse / maximum permissible 	10 kA
Main circuit	
operating power	
• at AC-23 A / at 240 V / rated value	18.5 kW
at AC-23 A / at 400 V / rated value	37 kW
at AC-23 A / at 440 V / rated value	37 kW
at AC-23 A / at 690 V / rated value	30 kW
at AC-3 / at 240 V / rated value	18.5 kW
at AC-3 / at 400 V / rated value	30 kW
at AC-3 / at 690 V / rated value	22 kW
operational current / rated value	100 A
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
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	Yes
• main switch	
switch disconnector	Yes
 EMERGENCY OFF switch 	No
• safety switch	Yes
maintenance/repair switch	
-	Yes
maintenance/repair switch	Yes
maintenance/repair switch Appearance	Yes Yes
maintenance/repair switch Appearance color / of the actuating element	Yes Yes
maintenance/repair switch Appearance color / of the actuating element Product details	Yes Yes
maintenance/repair switch Appearance color / of the actuating element Product details product feature	Yes Yes black
maintenance/repair switch Appearance color / of the actuating element Product details product feature can be locked into OFF position	Yes Yes black Yes
maintenance/repair switch Appearance color / of the actuating element Product details product feature	Yes Yes black Yes 3
maintenance/repair switch Appearance color / of the actuating element Product details product feature	Yes Yes black Yes 3 4 mm
maintenance/repair switch Appearance color / of the actuating element Product details product feature	Yes Yes black Yes 3 4 mm
maintenance/repair switch Appearance color / of the actuating element Product details product feature	Yes Yes black Yes 3 4 mm 8 mm
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maintenance/repair switch Appearance color / of the actuating element Product details product feature	Yes Yes black Yes 3 4 mm 8 mm No No No 600 V 60

continuous current / of upstream fuse / according to UL / rated value	200 A
type of fuse / according to UL	RK5
Number	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	2
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	1
• minimum	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
Requirements	
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 100 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
Mechanical Design	
height	107 mm
width	90 mm
depth	112.5 mm
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	508 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature / during storage / minimum	-25 °C
General Product Approval	
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Confirmation







Miscellaneous





Special Test Certificate



Miscellaneous

other

Environmental Confirmations

Further information

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=3LD2704-1TP51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2704-1TP51

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2704-1TP51

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

