SIEMENS

Data sheet

3LD2704-1TP53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3pole, lu: 100 A, operating power / at AC-23 A 400 V: 37 kW, front-mounted, 1 NC, 1 NO, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

Model		
product brand name	SENTRON	
product designation	3LD Switch disconnector	
design of the product	EMERGENCY-STOP 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, red/yellow	
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	
main switch	Yes
 switch disconnector 	Yes
 EMERGENCY OFF switch 	Yes
 safety switch 	Yes
maintenance/repair switch	Yes
Appearance	
color / of the actuating element	red
Product details	
product feature	Vez
• can be locked into OFF position	Yes
can be locked into OFF position number of bracket locks / maximum	3
can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum	3 4 mm
• can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum	3
can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional	3 4 mm 8 mm
can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional e motor drive	3 4 mm 8 mm No
can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional e motor drive e voltage trigger	3 4 mm 8 mm
can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional e motor drive	3 4 mm 8 mm No
can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional e motor drive e voltage trigger	3 4 mm 8 mm No
	3 4 mm 8 mm No
	3 4 mm 8 mm No No
	3 4 mm 8 mm No No
	3 4 mm 8 mm No No 50 kA
	3 4 mm 8 mm No No 50 kA 100 A
	3 4 mm 8 mm No No 50 kA 100 A 600 V
	3 4 mm 8 mm No No 50 kA 100 A 600 V 60

continuous current / of upstream fuse / according to UL /	200 A
rated value	Dire
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 minimum 	1 12
type of connectable conductor cross-sections / for copper conductor	12
• solid	1x (450mm²)
 finely stranded / with core end processing 	1x (435mm ²)
stranded with core end processing stranded	1x (450mm ²)
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
 finely stranded / with core end processing 	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)
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	517 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage / minimum	-25 °C
General Product Approval	
Confirmation CSA CCC	Miscellaneous UL VDE
General Product Approval Declaration of Conformity	Test Certificates Marine / Shipping other







Special Test Certificate



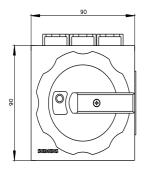
Miscellaneous

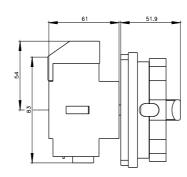
other

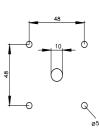
Environmental Confirmations

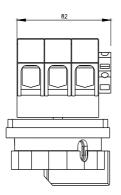
Further information

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=3LD2704-1TP53 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2704-1TP53 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2704-1TP53 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications









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