## **SIEMENS**

Data sheet 3LD2704-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 100 A, operating power / at AC-23 A 400 V: 37 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	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	7.5 W	
Main circuit		
operational current		
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 400 V rated value	100 A	
• at AC-21 A at 440 V rated value	100 A	

at AC-23 A at 400 V rated value	70 A
operating power	40.5 134
• at AC-23 A at 240 V rated value	18.5 kW 37 kW
at AC-23 A at 400 V rated value	0,,
at AC-23 A at 440 V rated value     at AC-23 A at 600 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 30 kW
<ul> <li>at AC-3 at 400 V rated value</li> <li>at AC-3 at 690 V rated value</li> </ul>	30 KW
Auxiliary circuit	ZZ KVV
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	300 V
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	Yes
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature can be locked into OFF position	Yes
accessories	
product extension optional	
• motor drive	No
voltage trigger	No
number of connectable NC contacts for auxiliary contacts	3
attachable maximum	
number of connectable NO contacts for auxiliary contacts attachable maximum	3
number of connectable CO contacts for auxiliary contacts attachable maximum	0
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	5014
at 690 V by gG fuse rated value  Let through oursent with alread switch	50 kA
let-through current with closed switch	40 kA
at 240 V for combination switch + gG fuse maximum     at 440 V for combination switch + gC fuse maximum	10 kA
at 440 V for combination switch + gG fuse maximum     at 600 V for combination switch + gG fuse maximum	10 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	10 kA
l2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	64 kA2.s
• at 440 V for combination switch + gG fuse maximum	64 kA2.s
• at 690 V for combination switch + gG fuse maximum	64 kA2.s
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
operational current of upstream fuse rated value	100 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	100 A
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	60
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	75

short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	10 kA
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)
<ul> <li>finely stranded with core end processing</li> </ul>	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)
<ul> <li>finely stranded with core end processing</li> </ul>	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	107 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
<ul> <li>front mounting with central attachment</li> </ul>	No
rail mounting	No
net weight	497 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	
Canaral Braduat Annroyal	

## **General Product Approval**







Confirmation





**General Product Approval** 

Marine / Shipping

other

Miscellaneous







Miscellaneous Confirmation

Environment

Environmental Con-

## Information on the packaging

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=3LD2704-0TK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2704-0TK53

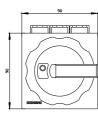
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2704-0TK53">http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2704-0TK53</a>

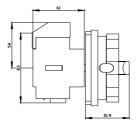
**CAx-Online-Generator** 

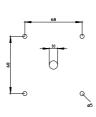
http://www.siemens.com/cax

**Tender specifications** 

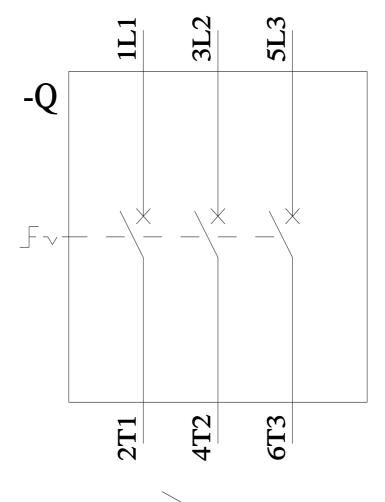
http://www.siemens.com/specifications

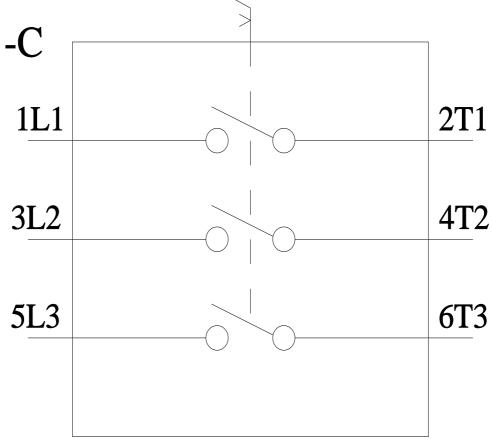












last modified: 6/20/2023 🖸