# SIEMENS

### Data sheet

## 3LD2054-1TL51



SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, rotary operating mechanism, black, central mounting 22.5 mm 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	4	
size of switch disconnector	1	
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	0.5 W	
Main circuit		
operational current		
• at AC-21 at 690 V rated value	16 A	
• at AC-21 A at 240 V rated value	16 A	
• at AC-21 A at 400 V rated value	16 A	
• at AC-21 A at 440 V rated value	16 A	
• at AC-23 A at 400 V rated value	16 A	

operating power	
operating power • at AC-23 A at 240 V rated value	4 kW
at AC-23 A at 400 V rated value	8 kW
at AC-23 A at 440 V rated value	7.5 kW
at AC-23 A at 690 V rated value	8 kW
• at AC-3 at 240 V rated value	3 kW
• at AC-3 at 400 V rated value	6 kW
• at AC-3 at 690 V rated value	5.5 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
switch disconnector	Yes
EMERGENCY OFF switch	No
<ul> <li>safety switch</li> </ul>	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 attachable maximum	1
number of connectable NO contacts for auxiliary contacts attachable maximum	1
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	
<ul> <li>at 690 V by gG fuse rated value</li> </ul>	50 kA
let-through current with closed switch	
<ul> <li>at 240 V for combination switch + gG fuse maximum</li> </ul>	3 kA
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	3 kA
<ul> <li>at 690 V for combination switch + gG fuse maximum permissible</li> </ul>	3 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s
<ul> <li>at 440 V for combination switch + gG fuse maximum</li> </ul>	2.5 kA2.s
• at 690 V for combination switch + gG fuse maximum	3 kA2.s
design of the fuse link	
• for short-circuit protection of the main circuit required	fuse gL/gG: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
operational current of upstream fuse rated value	20 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	16 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	7.5
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	10
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA

continuous current of upstream fuse according to UL rated value	50 A
type of fuse according to UL	
Connections	
AWG number as coded connectable conductor cross section solid	
• maximum	10
• minimum	18
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (14mm²)
• stranded	1x (16mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²
stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	
• for main current circuit	box terminal
for auxiliary contacts	connection terminals
Mechanical Design	
height	84 mm
width	67 mm
depth	116.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	Na
4-hole front mounting	No
front mounting with central attachment	Yes No
• rail mountingnet weight	220 g
Environmental conditions	220 g
ambient temperature during operation	-25 °C
<ul> <li>minimum</li> <li>maximum</li> </ul>	-20°C
ambient temperature during storage	55 6
minimum	-25 °C
• maximum	-20 °C
Approvals Certificates	
General Product Approval	
	VDE Miscellaneous ERIC
Declaration of Conformity Marine / Shipp	oing other Environment
UK CE Hovd's Register	Miscellaneous Confirmation Environmental Con- firmations

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

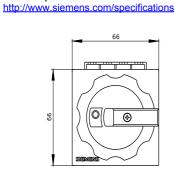
http://www.siemens.com/lowvoltage/catalogs

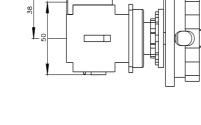
#### Industry Mall (Online ordering system)

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

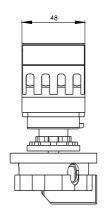
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2054-1TL51 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-1TL51 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2054-1TL51 CAx-Online-Generator

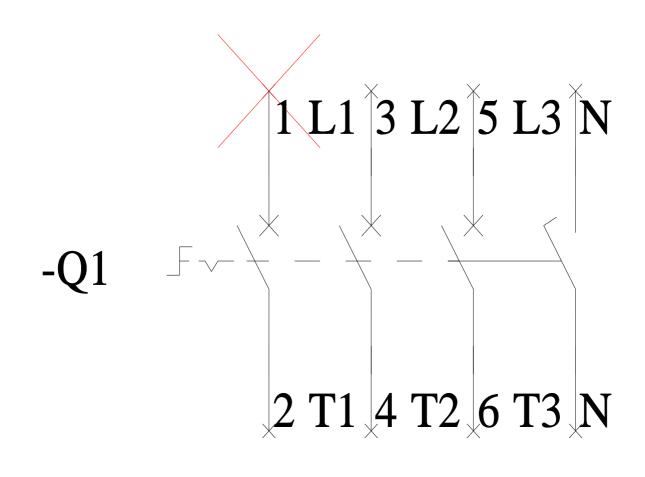
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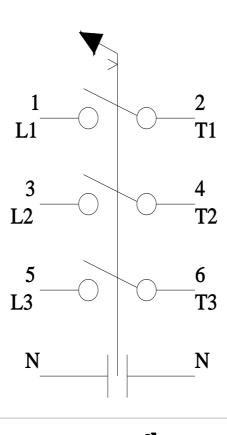


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