# SIEMENS

#### Data sheet

### 3LD2054-1TL53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4- pole, lu: 16 A, operating power / at AC-23 A 400 V: 7.5 kW, front-mounted, rotary operating mechanism, Red / yellow, central mounting 22.5 mm of the handle

product brand name         SENTRON           product designation         Switch disconnector           design of the product         EMERGENCV-STOP switch           display version for switch position indicator manual operation         10N - 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         4           size of switch disconnector         1           mechanical service life (operating cycles) (typical         100 000           electrical endurance (operating cycles) (typical         100 000           electrical endurance (operating cycles)         600 V           operating frequency maximum         50 1/h           degree of pollution         3           Voltage         600 V           super voltage resistance rated value         600 V           operating frequency rated value         600 V           operating frequency rated value         600 V           operating voltage         -           • at AC ra	Model		
design of the product         EMERGENCY-STOP switch           display version for switch position indicator manual operation         10N - 0 OFF           type of switch         front mounted           design of the actuating element         Short retary knob           color of the actuating element         red           design of handle         rotary operating mechanism, redyellow           type of the driving mechanism motor drive         No           Ceneral technical data	product brand name	SENTRON	
display version for switch position indicator manual operation       1 ON - 0 OFF         type of switch       front mounted         design of the actuating element       red         color of the actuating element       red         design of handle       rotary operating mechanism, red/yellow         type of the driving machanism motor drive       No         General technical data       number of poles         number of poles       4         size of switch disconnector       1         mechanical service life (operating cycles) typical       100 000         electricial endurance (operating cycles) typical       100 000         electricial endurance (operating cycles)       6000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       680 V         surge voltage resistance rated value       680 V         operating frequency rated value       690 V         e at AC rated value       690 V         operating rotage       680 V         surge voltage resistance rated value       690 V         operating frequency rated value       690 V         operating voltage       690 V         e at AC rated value       690 V         operating state per pole	product designation	Switch disconnector	
operation         front mounted           dosign of the actuating element         red           color of the actuating element         red           design of handle         rolary operating mechanism, red/yellow           type of the driving mechanism motor drive         No           Ceneral technical data         Immber of poles           number of poles         4           size of switch disconnector         1           mechanical service life (operating cycles) typical         100 000           electrical endurance (operating cycles) typical         100 000           electrical endurance (operating cycles) typical         000           operating frequency maximum         50 1/h           degree of pollution         3           Voltage         690 V           surge voltage resistance rated value         690 V           operating frequency maximum         60 V           operating requency maximum         60 V           operating requency rated value         690 V           operating requency material value         690 V           operating frequency rated value	design of the product	EMERGENCY-STOP switch	
design of the actuating element       Fed         color of the actuating element       Fed         design of handle       rotary operating mechanism, red/yellow         type of the driving mechanism motor drive       No         General technical data		1 ON - 0 OFF	
color of the actuating element     red       design of handle     rotary operating mechanism, red/yellow       type of the driving mechanism motor drive     No       Conversit technical data	type of switch	front mounted	
design of handle       rotary operating mechanism, red/yellow         type of the driving mechanism motor drive       No         General technical data	design of the actuating element	Short rotary knob	
type of the driving mechanism motor drive         No           Concolal technical data	color of the actuating element	red	
General technical data         number of poles       4         size of switch disconnector       1         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles)       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage	design of handle	rotary operating mechanism, red/yellow	
number of poles     4       size of switch disconnector     1       mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6 000       operating frequency maximum     6 000       operating frequency maximum     50 1/h       degree of pollution     3       Voltage     insulation voltage rated value       insulation voltage rated value     690 V       surge voltage resistance rated value     690 V       operating frequency maximum     60 HZ       operating frequency rated value     690 V       operating frequency rated value     600 Hz       Protection class IP     600 Hz       protection class IP     IP65       degree of protection NEMA rating     1, 3R, 4X, 12       protection class IP on the front     IP65       Dissipation     0.5 W       operating skate per pole     0.5 W       Main circuit     0.5 W       operational current     16 A <tr< th=""><th>type of the driving mechanism motor drive</th><th>No</th></tr<>	type of the driving mechanism motor drive	No	
size of switch disconnector       1         mechanical service life (operating cycles) typical       100 000         electrical endurance (operating cycles)       6         • at AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage resistance rated value       690 V         operating frequency rated value       100 102         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W	General technical data		
mechanical service life (operating cycles) typical     100 000       electrical endurance (operating cycles)     6 000       operating frequency maximum     50 1/h       degree of pollution     3       Voltage     insulation voltage rated value       insulation voltage rated value     690 V       surge voltage resistance rated value     690 V       operating requency maximum     60 Hz       operating requency rated value     690 V       operating frequency rated value     60 Hz       Protection class IP     IP65       degree of protection NEMA rating     1, 3R, 4X, 12       protection class IP     IP65       Dissipation     0.5 W       operating state per pole     0.5 W       Main circuit     0       operational current     16 A       • at AC-21 A at 240 V rated value <td< th=""><th>number of poles</th><th>4</th></td<>	number of poles	4	
electrical endurance (operating cycles)         • at AC-23 A at 690 V         operating frequency maximum         50 1/h         degree of pollution         3         Voltage         insulation voltage rated value         690 V         surge voltage resistance rated value         690 V         operating requency rated value         690 V         operating requency rated value         690 V         operating frequency rated value         690 V         operating frequency rated value         60 Hz         Protection class IP         protection class IP         Ipose for protection clase IP         Ipose fo	size of switch disconnector	1	
• at AC-23 A at 690 V       6 000         operating frequency maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       6 kV         operating voltage       6 kV         operating voltage       6 kV         operating frequency rated value       690 V         operating frequency rated value       60 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         operational current       0.5 W         operational current       0.5 W         e at AC-21 at et 0V rated value       16 A         e at AC-21 At at 400 V rated value       16 A	mechanical service life (operating cycles) typical	100 000	
operating frequency maximum       50 1/h         degree of pollution       3         Voltage       690 V         insulation voltage rated value       690 V         surge voltage resistance rated value       680 V         operating frequency rated value       690 V         operating frequency rated value       100 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         operating state per pole       0.5 W         Main circuit       0         operating acting the rated value       16 A         • at AC-21 at 240 V rated value       16 A         • at AC-21 At 240 V	electrical endurance (operating cycles)		
degree of pollution       3         Voltage       insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       6 kV         • at AC rated value       690 V         operating frequency rated value       690 V         • at AC rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         operating state per pole       0.5 W         operating state per pole       16 A         • 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-23 A at 690 V	6 000	
Voltage       insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       6 kV         • at AC rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         operating state per pole       0.5 W         Main circuit       0         operational current       16 A         • at AC-21 at 690 V rated value       16 A         • at AC-21 A at 240 V rated value       16 A	operating frequency maximum	50 1/h	
insulation voltage rated value       690 V         surge voltage resistance rated value       6 kV         operating voltage       690 V         • at AC rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       Protection class IP         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         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 400 V rated value       16 A         • at AC-21 A at 400 V rated value       16 A	degree of pollution	3	
surge voltage resistance rated value       6 kV         operating voltage       6 kV         • at AC rated value       690 V         operating frequency rated value       690 V         • minimum       50 Hz         • maximum       60 Hz         Protection class       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP       IP65         degree of protection NEMA rating       1, SR, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         operating state per pole       0.5 W         Main circuit       0.5 W         operational current       16 A         • 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	Voltage		
operating voltage       690 V         operating frequency rated value       690 V         operating frequency rated value       60 Hz         e minimum       60 Hz         Protection class       1065         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         power loss [W] for rated value of the current at AC in hot operating state per pole       0.5 W         Main circuit       0.5 W         operational current       16 A         • at AC-21 A at 240 V rated value       16 A         • at AC-21 A at 400 V rated value       16 A	insulation voltage rated value	690 V	
• at AC rated value       690 V         operating frequency rated value       50 Hz         • minimum       60 Hz         Protection class       Protection class IP         protection class IP       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       0.5 W         operating state per pole       0.5 W         Main circuit       16 A         • at AC-21 A at 400 V rated value       16 A         • at AC-21 A at 400 V rated value       16 A	surge voltage resistance rated value	6 kV	
operating frequency rated value50 Hz• minimum50 Hz• maximum60 HzProtection classprotection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65Dissipationpower loss [W] for rated value of the current at AC in hot operating state per pole0.5 WMain circuit0.5 Woperational current16 A• at AC-21 at 690 V rated value16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A	operating voltage		
• minimum50 Hz• maximum60 HzProtection classIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65Dissipation0.5 Wpower loss [W] for rated value of the current at AC in hot operating state per pole0.5 WMain circuitoperational current• at AC-21 at 690 V rated value16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A	<ul> <li>at AC rated value</li> </ul>	690 V	
• maximum60 HzProtection classIP65degree of protection NEMA ratingI. 3R, 4X, 12protection class IP on the frontIP65DissipationIP65Dissipation0.5 WMain circuit0.5 Woperating state per poleI6 Ae at AC-21 at 690 V rated value16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A	operating frequency rated value		
Protection class       IP65         degree of protection NEMA rating       1, 3R, 4X, 12         protection class IP on the front       IP65         Dissipation       IP65         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	• minimum	50 Hz	
protection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65power loss [W] for rated value of the current at AC in hot operating state per pole0.5 WMain circuit0.5 Woperational current • at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A• at AC-21 A at 400 V rated value16 A	• maximum	60 Hz	
degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65Dissipation0.5 Wpower loss [W] for rated value of the current at AC in hot operating state per pole0.5 WMain circuit0.5 Woperational current16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A• at AC-21 A at 400 V rated value16 A	Protection class		
protection class IP on the frontIP65Dissipation0.5 Wpower loss [W] for rated value of the current at AC in hot operating state per pole0.5 WMain circuit0.5 Woperational currentImage: Comparison of the current of the current of the current operation of the current operation	protection class IP	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     16 A       • at AC-21 A at 240 V rated value     16 A       • at AC-21 A at 240 V rated value     16 A       • at AC-21 A at 240 V rated value     16 A	degree of protection NEMA rating	1, 3R, 4X, 12	
power loss [W] for rated value of the current at AC in hot operating state per pole       0.5 W         Main circuit	protection class IP on the front	IP65	
operating state per pole         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 240 V rated value       16 A         • at AC-21 A at 400 V rated value       16 A	Dissipation		
operational current• at AC-21 at 690 V rated value16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A		0.5 W	
<ul> <li>at AC-21 at 690 V rated value</li> <li>at AC-21 A at 240 V rated value</li> <li>at AC-21 A at 400 V rated value</li> <li>16 A</li> <li>16 A</li> </ul>	Main circuit		
• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A	operational current		
• at AC-21 A at 400 V rated value 16 A	• 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 440 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	4 1344
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	2
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	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	Ver
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	
at 690 V by gG fuse rated value	50 kA
let-through current with closed switch	
• at 240 V for combination switch + gG fuse maximum	3 kA
• at 440 V for combination switch + gG fuse maximum	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
• at 440 V for combination switch + gG fuse maximum	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
for short-circuit protection of the auxiliary switch required	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	16 A
rated value	
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	7.5
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL	

UL 508/UL 60947-4-1	
continuous current of upstream fuse according to UL rated value	50 A
type of fuse according to UL	RK5
onnections	
AWG number as coded connectable conductor cross section solid maximum	
•	10
• type of connectable conductor cross-sections for copper	18
solid	$1_{V}(1 - 6mm^2)$
	1x (16mm <sup>2</sup> )
<ul> <li>finely stranded with core end processing</li> </ul>	1x (14mm <sup>2</sup> )
• 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
<ul> <li>for auxiliary contacts</li> </ul>	connection terminals
echanical Design	
height	84 mm
width	67 mm
depth	116.5 mm
type of device	fixed mounting
	Built-in unit fixed-mounted version
fastening method	
fastening method	No
4-hole front mounting	No
front mounting with central attachment	Yes
rail mounting	No
net weight	207 g
nvironmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
pprovals Certificates	
General Product Approval	
	Confirmation Miscellaneous
	I III
CCC EG-Konf.	E11E
Test Certificates other	Environment
Type Test Certific- Confirmation Miscellaneou ates/Test Report	us <u>Environmental Con-</u> firmations firmations

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=3LD2054-1TL53 Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

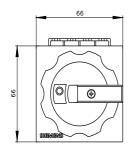
#### https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-1TL53

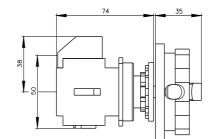
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD2054-1TL53

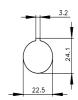
CAx-Online-Generator http://www.siemens.com/cax

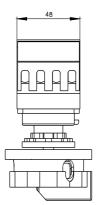
Tender specifications

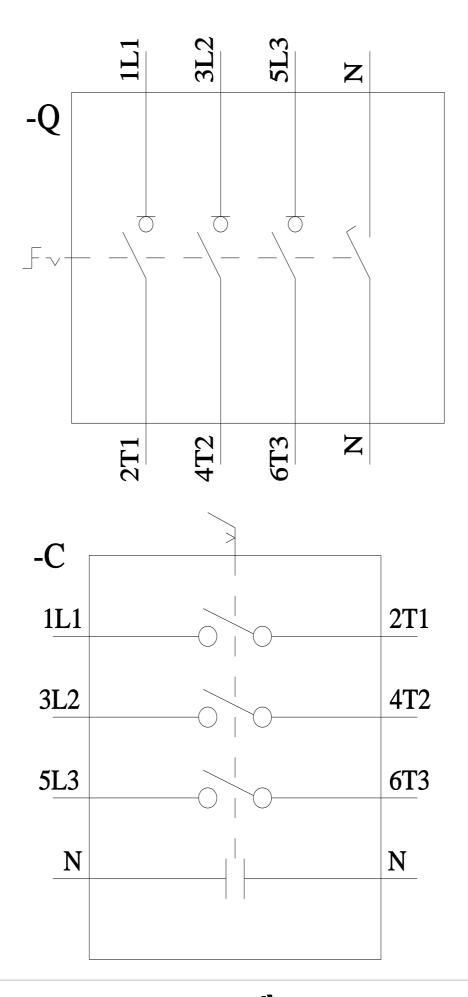
http://www.siemens.com/specifications











6/20/2023 🖸

## **Mouser Electronics**

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

3LD20541TL53