SIEMENS

Data sheet 3LD2054-2EP51



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, 1 NC, 1 NO, 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
• at AC-23 A at 400 V rated value operating power	10 A
at AC-23 A at 240 V rated value	4 kW
at AC-23 A at 240 V rated value at AC-23 A at 400 V rated value	8 kW
at AC-23 A at 400 V rated value at AC-23 A at 440 V rated value	7.5 kW
• at AC-23 A at 440 V rated value	8 kW
at AC-25 A at 690 V rated value 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	5.5 KW
	0
number of CO contacts for auxiliary contacts	1
number of NC contacts for auxiliary contacts	1
number of NO contacts for auxiliary contacts	500 V
operating voltage of auxiliary contacts at AC maximum continuous current of the auxiliary contact rated value	10 A
insulation voltage of the auxiliary switch rated value	500 V
Suitability	300 V
	Von
suitability for use switch disconnector	Yes
suitability for use SWEDGENCY OFF switch	No
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	res
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	0
number of connectable NO contacts for auxiliary contacts attachable maximum	0
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	50 kA
let-through current with closed switch	2 kA
at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gC fuse maximum	3 kA
at 440 V for combination switch + gG fuse maximum at 600 V for combination switch + gG fuse maximum	3 kA
 at 690 V for combination switch + gG fuse maximum permissible 	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	600 V
60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL	7.5
active power [hp] at AC at 600 V according to UL 508/UL	10
60947-4-1 rated value	5 kA
short-time withstand current (SCCR) at 600 V according to	5 kA

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	
Connections		
AWG number as coded connectable conductor cross section solid maximum		
•	10	
•	18	
type of connectable conductor cross-sections for copper conductor		
• solid	1x (16mm²)	
 finely stranded with core end processing 	1x (14mm²)	
• stranded	1x (16mm²)	
type of connectable conductor cross-sections for auxiliary contacts		
• solid	2x (0.75 2.5 mm²), 1x 4 mm²	
 finely stranded with core end processing 	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		
 4-hole front mounting 	No	
 front mounting with central attachment 	Yes	
rail mounting	No	
Net Weight	246 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		

General Product Approval













Miscellaneous

General Product Approval

Maritime application

other

Environment

EAC







Confirmation

Environmental Confirmations

Environment

Environmental Confirmations

Further information

Information on the packaging

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

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3LD2054-2EP51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-2EP51

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

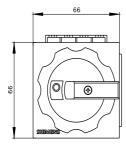
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2054-2EP51

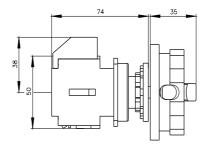
CAx-Online-Generator

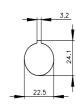
http://www.siemens.com/cax

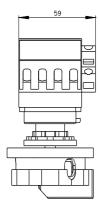
Tender specifications

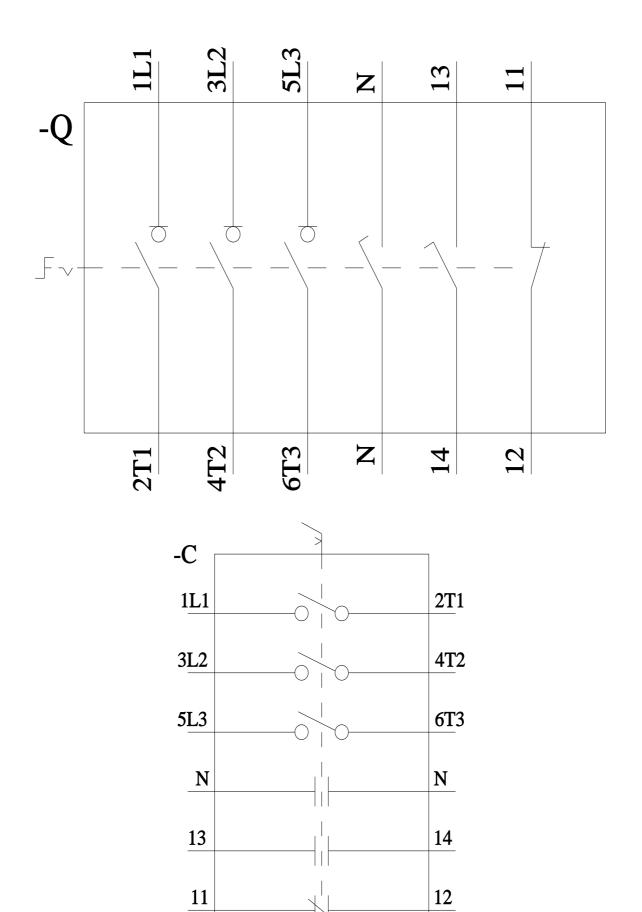
http://www.siemens.com/specifications











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