## SIEMENS

## Data sheet

## 3LD3054-0TK51



Load disconnector 3LD3, lu 16 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 7.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotating drive black 66 x 66 mm

Model	
product brand name	SENTRON
product designation	3LD Switch disconnector
design of the product	Main 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, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	3
number of poles / note	3
type of device	fixed mounting
type of switch	front mounted
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	3 kA2.s
let-through l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 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]	
<ul> <li>for rated value of the current / at AC / in hot operating state / per pole</li> </ul>	0.5 W
<ul> <li>per conductor / typical</li> </ul>	1 W
Current	
operational current	
• at 40 °C / rated value	16 A
• at 45 °C / rated value	16 A
• at 50 °C / rated value	16 A
• at 55 °C / rated value	16 A

at AC / rated value	16 A
• at AC-23 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
operational current / of upstream fuse / rated value	16 A
let-through current / with closed switch	
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	3 kA
maximum $a_{\rm rat} = 600 \text{ V} / \text{for combination switch} + aC fuel /$	2 4 4
<ul> <li>at 690 V / for combination switch + gG fuse / maximum permissible</li> </ul>	3 kA
Main circuit	
operating power	
at AC-23 A / at 240 V / rated value	3 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 400 V / rated value	5.5 kW
operational current / rated value	16 A
Auxiliary circuit	
	0
number of CO contacts / for auxiliary contacts 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 contacts / at AC / maximum	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	No
	Yes
<ul> <li>safety switch</li> <li>maintenance/repair switch</li> </ul>	Yes
· ·	
Appearance	black
color / of the actuating element	DIACK
Product details	
product feature	N
can be locked into OFF position	Yes
number of bracket locks / maximum	3
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	8 mm
special product feature	Can be locked in zero position
product extension / optional	
product extension / optional • motor drive	No
product extension / optional • motor drive • voltage trigger	
product extension / optional • motor drive • voltage trigger Short circuit	No
product extension / optional • motor drive • voltage trigger	No
product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value	No No 10 kA
product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection	No No
product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value	No No 10 kA
product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value	No No 10 kA
product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL	No No 10 kA 6 kA
product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL	No No 10 kA 6 kA 16 A
product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value • at 690 V / by gG fuse / rated value <b>according UL</b> operational current / at AC / according to UL 508/UL 60947-4-1 / rated value 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	No No 10 kA 6 kA 16 A 600 V

Confirmation	EUL CE AR
General Product Approval	Declaration of Conformity
ambient temperature / during storage / minimum	-25 °C
• maximum	55 °C
• minimum	-25 °C
ambient temperature / during operation	
Environmental conditions	
net weight	200 g
rail mounting	No
<ul> <li>4-hole front mounting</li> <li>front mounting with central attachment</li> </ul>	No Yes
fastening method	No
fastening method	Built-in unit fixed-mounted version
depth	114 mm
width	36 mm
height	60 mm
Mechanical Design	
• for short-circuit protection of the auxiliary switch / required	fuse gL/gG: 10 A
for short-circuit protection of the main circuit / required	fuse gL/gG: 20 A
design of the fuse link	
Requirements	
for auxiliary contacts	Box terminals
for main current circuit	box terminal
stranded type of electrical connection	2x (0.75 2.5 mm²), 1x 4 mm²
<ul> <li>finely stranded / with core end processing</li> <li>stranded</li> </ul>	2x (0.75 1.5 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup>
• solid	2x (0.75 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>
type of connectable conductor cross-sections / for auxiliary contacts	
• stranded	1x (2.5 to 16 mm <sup>2</sup> )
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (2.516 mm <sup>2</sup> )
• solid	1x (2.5 to 16 mm <sup>2</sup> )
type of connectable conductor cross-sections / for copper conductor	
• minimum	14
AWG number / as coded connectable conductor cross section / solid • maximum	6
Connections	
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
Number	
type of fuse / according to UL	RK5
continuous current / of upstream fuse / according to UL / rated value	50 A
	50.4

other

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=3LD3054-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3054-0TK51

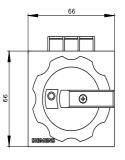
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3054-0TK51

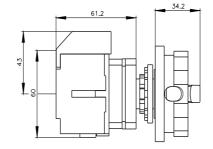
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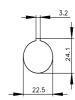
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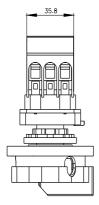
**Tender specifications** 

http://www.siemens.com/specifications









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