SIEMENS

Data sheet

3LD3054-0TL53



Load disconnector 3LD3, lu 16 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 7.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotary actuator red / yellow 66 x 66 mm

product brand name SENTRON product designation Switch disconnector design of the product EMERCENCY-STOP switch display version for switch position indicator manual operation 10N + 0 OFF type of switch front mounted design of the actuating element Short rolary knob color of the actuating element red design of the actuating element red mumber of poles 4 number of poles note 4 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6000 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 super voltage resistance rated value 600 V operating voltage 600 V ext AC rated value 600 V	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 General 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 mechanism motor drive No General technical data number of poles number of poles note 4 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 680 V surge voltage resistance rated value 690 V operating voltage 680 V surge voltage resistance rated value 690 V operating voltage 690 V e at AC rated value 690 V operating frequency rated value 690 V operating rotage 610 V surge voltage resistance rated value 690 V operating totage 610 V e at AC rated value 690 V operating frequency rated value 60 Hz	product designation	Switch disconnector	
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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 General technical data	color of the actuating element	red	
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• at AC-23 A at 690 V6 000operating frequency maximum50 1/hdegree of pollution3Voltage690 Vinsulation voltage reaistance rated value690 Voperating voltage6 kV• at AC rated value690 Voperating frequency rated value690 Voperating frequency rated value690 Voperating frequency rated value690 V• minimum50 Hz• minimum60 HzProtection class IPIP65degree of protection NEMA rating operating state per pole1.3R, 4X, 12protection class IPIP65Dissipation0.5 Woperating state value of the current at AC in hot operating state per pole0.5 WMain circuit0operational current • at AC-21 at 420 V rated value16 A• at AC-21 A at 400 V rated value16 A• at AC-21 A at 400 V rated value16 A	mechanical service life (operating cycles) typical	100 000	
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• 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 classIP65protection class IPIP65degree 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 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		
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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 0.5 W • 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	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	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	
 at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value 16 A 16 A 	Main circuit		
 at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value 16 A 16 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	
 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 690 V rated value 	5.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
number of NC contacts for auxiliary contacts	1
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	
special product feature	Can be locked in zero position
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	2
attachable maximum	
number of connectable NO contacts for auxiliary contacts attachable maximum	4
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 440 V by gG fuse rated value	10 kA
 at 690 V by gG fuse rated value 	6 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
• 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
· · · · · · · · · · · · · · · · · · ·	16 A
operational current of upstream fuse rated value	
operational current of upstream fuse rated value according UL	
	16 A
according UL operational current at AC according to UL 508/UL 60947-4-1	16 A 600 V
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 508/UL	
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 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL	600 V

60947-4-1 rated value	
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	RK5
connections	
AWG number as coded connectable conductor cross section solid maximum	
•	6
•	14
type of connectable conductor cross-sections for copper conductor	
• solid	1x (2.5 to 16 mm ²)
 finely stranded with core end processing 	1x (2.516 mm²)
stranded	1x (2.5 to 16 mm ²)
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 mm ²), 1x 2.5 mm ²
• stranded	2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	
for main current circuit	box terminal
for auxiliary contacts	Box terminals
lechanical Design	60 mm
height	49 mm
depth	114 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	200 g
invironmental 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	
Confirmatic	
UK CE CA CE EG-Konf.	
EG-Konf.	
other Environment	
Confirmation <u>Miscellaneous</u> Environmental	
firmations	<u>firmations</u>

 Further information

 Information on the packaging

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

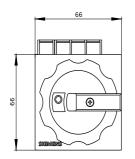
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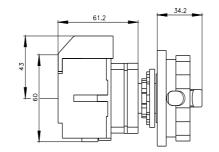
 http://www.siemens.com/lowvoltage/catalogs

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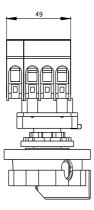
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CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications









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