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 nameSENTRONproduct designation3LD Switch disconnectordesign of the productEMERGENCY-STOP switchdisplay version / for switch position indicator manual operation1 ON - 0 OFFtype of switchfront mounteddesign of the actuating elementShort rotary knobcolor / of the actuating elementreddesign of handlerotary operating mechanism, red/yellowtype of the driving mechanism / motor driveNoGeneral technical data4number of poles / note4mumber of poles / note4mechanical service life (switching cycles) / typical100 000		
design of the product EMERGENCY-STOP 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 red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data 4 number of poles / note 4 mechanical service life (switching cycles) / typical 100 000		
display version / for switch position indicator manual operation1 ON - 0 OFFtype of switchfront mounteddesign of the actuating elementShort rotary knobcolor / of the actuating elementreddesign of handlerotary operating mechanism, red/yellowtype of the driving mechanism / motor driveNoGeneral technical datanumber of poles4number of poles / note4mechanical service life (switching cycles) / typical100 000		
operationtype of switchfront mounteddesign of the actuating elementShort rotary knobcolor / of the actuating elementreddesign of handlerotary operating mechanism, red/yellowtype of the driving mechanism / motor driveNoGeneral technical datanumber of poles4number of poles / note4mechanical service life (switching cycles) / typical100 000		
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 number of poles / note 4 mechanical service life (switching cycles) / typical 100 000		
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 (switching cycles) / typical 100 000		
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 (switching cycles) / typical 100 000		
type of the driving mechanism / motor drive No General technical data		
General technical data number of poles 4 number of poles / note 4 mechanical service life (switching cycles) / typical 100 000		
number of poles4number of poles / note4mechanical service life (switching cycles) / typical100 000		
number of poles / note 4 mechanical service life (switching cycles) / typical 100 000		
mechanical service life (switching cycles) / typical 100 000		
electrical endurance (switching 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 0.5 W hot operating state / per pole		
Current		
operational current / rated value 16 A		
operational current		
• at 40 °C / rated value 16 A		
• at 45 °C / rated value 16 A		

	10 4
• at 50 °C / rated value	16 A
• at 55 °C / rated value	16 A
at AC / rated value	16 A
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	
• 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
 switch disconnector 	Yes
 EMERGENCY OFF switch 	Yes
 safety switch 	Yes
 maintenance/repair switch 	Yes
Product details	
i roduot uotano	
special product feature	Can be locked in zero position
	Can be locked in zero position Yes
special product feature	
special product feature product feature / can be locked into OFF position	
special product feature product feature / can be locked into OFF position accessories	
special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive	Yes
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts	Yes No No
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts	Yes No No 2
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts	Yes No No 2 4
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum	Yes No No 2 4 0
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum	Yes No No 2 4 0 3
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks	Yes No No 2 4 0 3
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse	Yes No No 2 4 0 3
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection	Yes No No 2 4 0 3 4 8 mm
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value	Yes No No 2 4 0 3 4 8 mm
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks 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	Yes No No 2 4 0 3 4 8 mm
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks 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 let-through current / with closed switch • at 240 V / for combination switch + gG fuse /	Yes No No 2 4 0 3 4 8 mm 10 kA 6 kA
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value e at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse /	Yes No No 2 4 0 3 4 8 mm 10 kA 6 kA 3 kA
special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks 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 let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum	Yes No No 2 4 0 3 4 8 mm 10 kA 6 kA 3 kA 3 kA
<pre>special product feature product feature / can be locked into OFF position accessories product extension / optional</pre>	Yes No No 2 4 0 3 4 8 mm 10 kA 6 kA 3 kA 3 kA

maximum	
 at 440 V / for combination switch + gG fuse / 	2.5 kA2.s
maximum	
 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	16 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	RK5
Connections	
AWG number / as coded connectable conductor cross section / solid	
• maximum	6
• minimum	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 mm ²)
stranded type of connectable conductor cross-sections / for	1x (2.5 to 16 mm ²)
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 mm ²), 1x 4 mm ²
type of electrical connection	
for main current circuit	box terminal
 for auxiliary contacts 	Box terminals
Mechanical Design	
height	60 mm
width	49 mm
depth	114 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	No
 4-hole front mounting front mounting with control attachment 	No
 front mounting with central attachment rail mounting 	Yes No
net weight	200 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-25 °C
• maximum	55 °C
General Product Approval	Declaration of Conformity









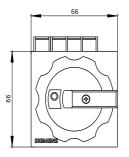
UK CA

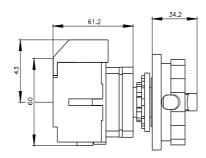
other

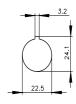
Miscellaneous

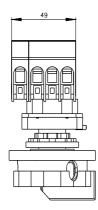
Further information

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=3LD3054-0TL53 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3054-0TL53 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3054-0TL53 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications









C