## 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		
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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		

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• 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
<ul> <li>at AC-21 A / at 440 V / rated value</li> </ul>	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	
<ul> <li>main switch</li> </ul>	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	Yes
<ul> <li>safety switch</li> </ul>	Yes
<ul> <li>maintenance/repair switch</li> </ul>	Yes
Product details	
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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	
<ul> <li>at 440 V / for combination switch + gG fuse /</li> </ul>	2.5 kA2.s
maximum	
<ul> <li>at 690 V / for combination switch + gG fuse / maximum</li> </ul>	3 kA2.s
design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit / required</li> </ul>	fuse gL/gG: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>	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 <sup>2</sup> )
<ul> <li>finely stranded / with core end processing</li> </ul>	1x (2.516 mm <sup>2</sup> )
stranded     type of connectable conductor cross-sections / for	1x (2.5 to 16 mm <sup>2</sup> )
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 mm <sup>2</sup> ), 1x 2.5 mm <sup>2</sup>
stranded	2x (0.75 2.5 mm <sup>2</sup> ), 1x 4 mm <sup>2</sup>
type of electrical connection	
for main current circuit	box terminal
<ul> <li>for auxiliary contacts</li> </ul>	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
<ul> <li>4-hole front mounting</li> <li>front mounting with control attachment</li> </ul>	No
<ul> <li>front mounting with central attachment</li> <li>rail mounting</li> </ul>	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









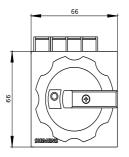
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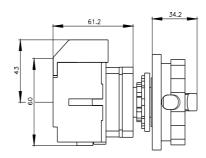
other

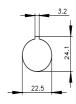
**Miscellaneous** 

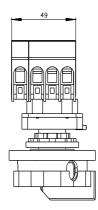
Further information

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