SIEMENS

Data sheet

3LD3254-1TK53



Load disconnector 3LD3, lu 32 A Main switch 3-pole Rated operating capacity for AC-23 A at 400V 11.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotary actuator red / yellow 66 x 66 mm with auxiliary switch 10E + 1S

Model		
product brand name	SENTRON	
product designation	3LD Switch disconnector	
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		
number of poles	3	
number of poles / note	3	
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 hot operating state / per pole	1.8 W	
Current		
operational current / rated value	32 A	
operational current		
 at 40 °C / rated value 	32 A	
• at 45 °C / rated value	32 A	

a at EQ °C / rotad welve	22.4
• at 50 °C / rated value	32 A
• at 55 °C / rated value	32 A
• at AC / rated value	32 A
Main circuit	
operational current	
 at AC-21 / at 690 V / rated value 	32 A
 at AC-21 A / at 240 V / rated value 	32 A
 at AC-21 A / at 400 V / rated value 	32 A
 at AC-21 A / at 440 V / rated value 	32 A
• at AC-23 A / at 400 V / rated value	22 A
operating power	
 at AC-23 A / at 240 V / rated value 	6 kW
 at AC-23 A / at 400 V / rated value 	12 kW
 at AC-23 A / at 440 V / rated value 	11.5 kW
 at AC-23 A / at 690 V / rated value 	12 kW
 at AC-3 / at 240 V / rated value 	5.5 kW
 at AC-3 / at 400 V / rated value 	10 kW
• at AC-3 / at 690 V / rated value	9.5 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	1
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
 safety switch maintenance/repair switch 	Yes Yes
maintenance/repair switch	
maintenance/repair switch Product details	Yes
maintenance/repair switch Product details special product feature	Yes Can be locked in zero position
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position	Yes
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories	Yes Can be locked in zero position
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes Can be locked in zero position Yes
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional omtor drive	Yes Can be locked in zero position Yes No
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger	Yes Can be locked in zero position Yes No No
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional omtor drive	Yes Can be locked in zero position Yes No
maintenance/repair switch Product details 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 Can be locked in zero position Yes No No
 maintenance/repair switch Product details <pre>special product feature product feature / can be locked into OFF position </pre> accessories <pre>product extension / optional </pre>	Yes Can be locked in zero position Yes No No 2
 maintenance/repair switch Product details 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 Can be locked in zero position Yes No No 2
 maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional e motor drive e 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 connectable CO 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 connectable CO 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 connectable CO 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 connectable CO 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 connectable CO contacts / for auxiliary contacts / attachable / maximum number of connectable contacts / for auxiliary contacts / attachable / maximum<td>Yes Can be locked in zero position Yes No No 2 4 0</td>	Yes Can be locked in zero position Yes No No 2 4 0
 maintenance/repair switch Product details 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 Can be locked in zero position Yes No No 2 4 0 3
 maintenance/repair switch Product details 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 Can be locked in zero position Yes No No 2 4 0
 maintenance/repair switch Product details 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 Can be locked in zero position Yes No No 2 4 0 3
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 maintenance/repair switch Product details 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 Can be locked in zero position Yes No No 2 4 0 3
 maintenance/repair switch Product details 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 	Yes Can be locked in zero position Yes No No 2 4 0 3 4 8 mm
 maintenance/repair switch Product details 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 Short circuit conditional short-circuit current / with line-side fuse protection at 440 V / by gG fuse / rated value 	Yes Can be locked in zero position Yes No No 2 4 0 3 4 8 mm
 maintenance/repair switch Product details 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 	Yes Can be locked in zero position Yes No No 2 4 0 3 4 8 mm
 maintenance/repair switch Product details 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 / br combination switch + gG fuse / 	Yes Can be locked in zero position Yes No No 2 4 0 3 4 8 mm 10 kA 6 kA
 maintenance/repair switch Product details 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 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 Can be locked in zero position Yes No No 2 4 0 3 4 8 mm 10 kA 6 kA 4.5 kA
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maximum	
 at 440 V / for combination switch + gG fuse / 	9 kA2.s
maximum	
at 690 V / for combination switch + gG fuse / maximum	9 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 40 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	32 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	32 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	20
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	20
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 2.5 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 	Box terminals
Mechanical Design	
height	60 mm
width	47 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 central attachment 	Yes
rail mounting	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

Confirmation







EG-Konf.

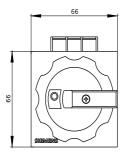
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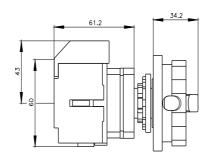
other

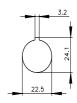
Miscellaneous

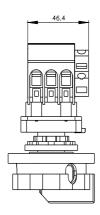
Further information

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