SIEMENS

Data sheet

3LD2504-1TL53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4-pole, lu: 63 A, operating power / at AC-23 A 400 V: 22 kW, front-mounted, rotary operating mechanism, Red / yellow, 4-hole mounting of the handle

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				
design of the actuating element	Short rotary knob				
design of handle	rotary operating mechanism, red/yellow				
type of the driving mechanism / motor drive	No				
General technical data					
number of poles	4				
type of device	fixed mounting				
type of switch	front mounted				
size of switch disconnector	3				
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	21 kA2.s				
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	21 kA2.s				
operating frequency / maximum	50 1/h				
Voltage					
insulation voltage / rated value	690 V				
surge voltage resistance / rated value	6 kV				
operational current / at AC / rated value	63 A				
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 	4.5 W				
 per conductor / typical 	4.5 W				
Current					
operational current					
• at AC-23 A / at 400 V / rated value	43 A				

	22.4
• at AC-21 / at 690 V / rated value	63 A
• at AC-21 A / at 240 V / rated value	63 A
at AC-21 A / at 440 V / rated value	63 A
operational current / of upstream fuse / rated value	63 A
let-through current / with closed switch	
 at 440 V / for combination switch + gG fuse / maximum 	6 kA
 at 690 V / for combination switch + gG fuse / maximum permissible 	6 kA
Main circuit	
operating power	
• at AC-23 A / at 240 V / rated value	11 kW
• at AC-23 A / at 400 V / rated value	22 kW
• at AC-23 A / at 440 V / rated value	22 kW
• at AC-23 A / at 690 V / rated value	18.5 kW
• at AC-3 / at 240 V / rated value	11 kW
• at AC-3 / at 400 V / rated value	18.5 kW
• at AC-3 / at 690 V / rated value	15.5 kW
operational current / rated value	63 A
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
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 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
 switch disconnector EMERGENCY OFE switch 	Yes
EMERGENCY OFF switch	Yes
EMERGENCY OFF switchsafety switch	Yes Yes
 EMERGENCY OFF switch safety switch maintenance/repair switch 	Yes
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance	Yes Yes Yes
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element	Yes Yes
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance	Yes Yes Yes
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element	Yes Yes Yes
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details	Yes Yes Yes
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details e product function / can be locked into OFF position	Yes Yes Yes red Yes
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details eproduct function / can be locked into OFF position number of bracket locks / maximum	Yes Yes Yes Yes 3
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum	Yes Yes Yes Yes Yes 3 4 mm
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / maximum hasp thickness / of the bracket locks / maximum	Yes Yes Yes Yes Yes 3 4 mm
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details e product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional	Yes Yes Yes Yes 3 4 mm 8 mm
EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details e product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional e motor drive	Yes Yes Yes Yes 3 4 mm 8 mm
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse 	Yes Yes Yes Yes 3 4 mm 8 mm
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection 	Yes Yes Yes Yes 3 4 mm 8 mm No No
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value 	Yes Yes Yes Yes 3 4 mm 8 mm
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value 	Yes Yes Yes Ted Yes 3 4 mm 8 mm No No No
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value 	Yes Yes Yes 7es 7es 7es 3 4 mm 8 mm 8 mm 50 kA 50 kA
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL 	Yes Yes Yes Ted Yes 3 4 mm 8 mm No No No
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection 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 	Yes Yes Yes 7es 7es 7es 3 4 mm 8 mm 8 mm 50 kA 50 kA
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL 	Yes Yes Yes red Yes 3 4 mm 8 mm No No No 50 kA 63 A 600 V
 EMERGENCY OFF switch safety switch maintenance/repair switch Appearance color / of the actuating element Product details product function / can be locked into OFF position number of bracket locks / maximum hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum product extension / optional motor drive voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value 	Yes Yes Yes red Yes 3 4 mm 8 mm No No No S0 kA 63 A 600 V 40

rated value					
type of fuse / according to UL	RK5				
Number					
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2				
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	2				
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0				
Connections					
AWG number / as coded connectable conductor cross					
section / solid • maximum	6				
• minimum	6 14				
type of connectable conductor cross-sections / for copper conductor	14				
• solid	1x (2,535mm²)				
 finely stranded / with core end processing 	$1x (2.516 \text{ mm}^2)$				
stranded stranded	1x (2,535mm ²)				
type of connectable conductor cross-sections / for					
auxiliary contacts	latoral auxiliant awitch 24 (0	75 2 5mm ²) 1x 4mm	2: front ouvilion		
solid	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)				
 finely stranded / with core end processing 	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x 2,5mm ²				
stranded	lateral auxiliary switch 2x (0,75 2,5mm ²), 1x 4mm ² ; front auxiliary switch 1x (0,75 2,5mm ²)				
type of electrical connection					
 for main current circuit 	box terminal				
 for auxiliary contacts 	connection terminals				
Requirements					
design of the fuse link					
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 63 A				
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A				
Mechanical Design					
height	106 mm				
width	90 mm				
depth	110.5 mm				
fastening method	Built-in unit fixed-mounted version				
fastening method					
• 4-hole front mounting	Yes				
 front mounting with central attachment 	No				
rail mounting	No				
net weight	490 g				
Environmental conditions					
ambient temperature / during operation					
• minimum	-25 °C				
• maximum	55 °C				
ambient temperature / during storage / minimum	-25 °C				
Certificates					
reference code					
• acc. to DIN EN 61346-2	S				
• acc. to IEC 81346-2	SF				
General Product Approval		Declaration of Conformity	Test Certificates		











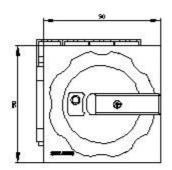
Special Test Certificate

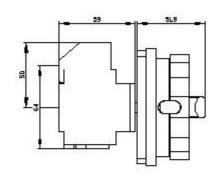
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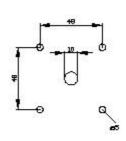
Environmental Confirmations

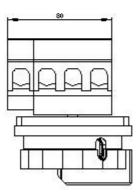
Further information

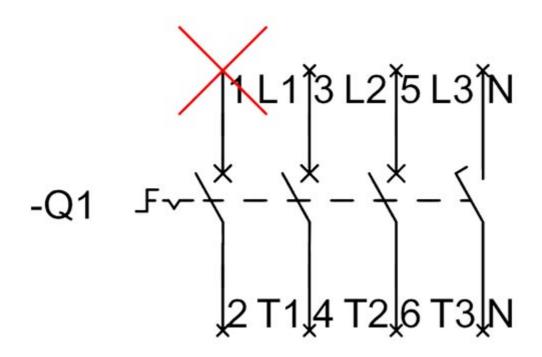
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