SIEMENS

Data sheet

3LD2254-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3pole, lu: 32 A, operating power / at AC-23 A 400 V: 11.5 kW, frontmounted, rotary operating mechanism, Red / yellow, central mounting 22.5 mm 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	1 ON - 0 OFF
operation	
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
size of switch disconnector	2
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating 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
 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	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
 EMERGENCY OFF switch 	Yes
 safety switch 	Yes
maintenance/repair switch	Yes
Product details	
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 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
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 690 V by gG fuse rated value 	50 kA
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	4.5 kA
• at 440 V for combination switch + gG fuse maximum	4.5 kA
 at 690 V for combination switch + gG fuse maximum permissible 	5 kA
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	9 kA2.s
• at 440 V for combination switch + gG fuse maximum	9 kA2.s
• 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	

according UL	
operational current at AC according to UL 508/UL 60	9947- 32 A
4-1 rated value operating voltage at AC at 50/60 Hz according to UL	600 V
508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 50	8/UL 20
60947-4-1 rated value active power [hp] at AC at 600 V according to UL 50	8/UL 20
60947-4-1 rated value short-time withstand current (SCCR) at 600 V accor	ding to 5 kA
UL 508/UL 60947-4-1 continuous current of upstream fuse according to UI	rated 80 A
value type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cros	3
maximum	8
• minimum	14
type of connectable conductor cross-sections for co conductor	pper
• solid	1x (1,516mm²)
 finely stranded with core end processing 	1x (1,510mm²)
• stranded	1x (1,516mm ²)
type of connectable conductor cross-sections for au contacts	
• solid	2x (0.75 2.5 mm ²), 1x 4 mm ²
 finely stranded with core end processing stranded 	2x (0.75 1.5 mm²), 1x 2.5 mm² 2x (0.75 2.5 mm²), 1x 4 mm²
type of electrical connection	2x (0.75 2.5 mm), 1x 4 mm
for main current circuit	box terminal
	connection terminals
for auxiliary contacts Mechanical Design	
Mechanical Design height	83 mm
Mechanical Design	
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Mechanical Design height width depth type of device	83 mm 67 mm 116.5 mm fixed mounting
Mechanical Design height width depth type of device fastening method	83 mm 67 mm 116.5 mm
Mechanical Design height width depth type of device fastening method fastening method	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version
Mechanical Design height width depth type of device fastening method fastening method e 4-hole front mounting	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No
Mechanical Design height width depth type of device fastening method fastening method e 4-hole front mounting • front mounting with central attachment	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g
Mechanical Design height width depth type of device fastening method fastening method efastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g
Mechanical Design height width depth type of device fastening method fastening method fastening method e 4-hole front mounting e front mounting with central attachment rail mounting net weight Environmental conditions ambient temperature during operation e maximum	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g -25 °C 55 °C
Mechanical Design height width depth type of device fastening method fastening method fastening method e 4-hole front mounting e front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • maximum ambient temperature during storage • minimum	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g -25 °C 55 °C -25 °C -25 °C
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum ambient temperature during storage • minimum • maximum • maximum • maximum	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g -25 °C 55 °C -25 °C 55 °C
Mechanical Design height width depth type of device fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g -25 °C 55 °C -25 °C -25 °C
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Mechanical Design height width depth type of device fastening method fastening method effective height Environmental conditions ambient temperature during operation eminimum emaximum ambient temperature during storage eminimum emaximum General Product Approval Confirmation General Product Declaration of Conformity	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g -25 °C 55 °C -25 °C 55 °C -25 °C 55 °C 55 °C
Mechanical Design height width depth type of device fastening method fastening method astening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • maximum ambient temperature during storage • minimum • maximum Ceneral Product Approval	83 mm 67 mm 116.5 mm fixed mounting Built-in unit fixed-mounted version No Yes No 206 g -25 °C 55 °C -25 °C 55 °C







Special Test Certificate





other

Miscellaneous

Environmental Confirmations

Further information

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