SIEMENS

Data sheet

3LD5410-0TK11



SENTRON, Molded case switch 3LD5 UL, Main switch, 3-pole, certified according to UL489 UL60947-4-1 and IEC60947-3, UL: 100A, SCCR 65kA at 480VAC, Operating power at 480VAC 3-phase: 60hp, IEC: 100A, Operating power at AC-23A at 400V: 45kW, floor mounting with door coupling rotary operating mechanism, defeatable, Standard, 4-hole mounting of the handle, without tolerance compensation, incl. terminal covers for the infeed side

Model		
product brand name	SENTRON	
product designation	3LD UL switch disconnector	
design of the product	Main switch	
display version / for switch position indicator manual operation	1 ON - 0 OFF	
design of the actuating element	door-coupling rotary operating mechanism	
design of handle	rotary operating mechanism, black	
type of the driving mechanism / motor drive	No	
General technical data		
number of poles	3	
type of device	fixed mounting	
type of switch	Floor mounting with door coupling	
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	223 kA2.s	
let-through l2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	223 kA2.s	
operating frequency / maximum	50 1/h	
Voltage		
insulation voltage / rated value	690 V	
surge voltage resistance / rated value	6 kV	
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 	36 W	
 per conductor / typical 	36 W	
Current		
operational current		
• at 40 °C / rated value	100 A	
• at 45 °C / rated value	100 A	
• at 50 °C / rated value	100 A	
• at 55 °C / rated value	100 A	

 at AC / rated value 	100 A
 at AC-23 A / at 400 V / rated value 	100 A
 at AC-21 / at 690 V / rated value 	100 A
 at AC-21 A / at 240 V / rated value 	100 A
• at AC-21 A / at 440 V / rated value	100 A
operational current / of upstream fuse / rated value	125 A
let-through current / with closed switch	
 at 440 V / for combination switch + gG fuse / 	16 kA
maximum	
 at 690 V / for combination switch + gG fuse / 	15 kA
maximum permissible	
Main circuit	
operating power	
• at AC-23 A / at 240 V / rated value	30 kW
 at AC-23 A / at 440 V / rated value 	45 kW
 at AC-23 A / at 690 V / rated value 	37 kW
 at AC-3 / at 240 V / rated value 	30 kW
 at AC-3 / at 400 V / rated value 	45 kW
at AC-3 / at 690 V / rated value	30 kW
operational current / rated value	100 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
EMERGENCY OFF switch	No
 safety switch 	Yes
maintenance/repair switch	Yes
Appearance	
color / of the actuating element	gray
Product details	9.09
product feature	Vee
can be locked into OFF position	Yes
number of bracket locks / maximum	
	3
hasp thickness / of the bracket locks / minimum	5 mm
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum	5 mm 7.5 mm
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature	5 mm
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional	5 mm 7.5 mm defeatable door-coupling handle
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive	5 mm 7.5 mm defeatable door-coupling handle No
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger	5 mm 7.5 mm defeatable door-coupling handle
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger Short circuit	5 mm 7.5 mm defeatable door-coupling handle No
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse	5 mm 7.5 mm defeatable door-coupling handle No
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection	5 mm 7.5 mm defeatable door-coupling handle No No
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value	5 mm 7.5 mm defeatable door-coupling handle No No 50 kA
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger 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	5 mm 7.5 mm defeatable door-coupling handle No No
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger 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 according UL	5 mm 7.5 mm defeatable door-coupling handle No No 50 kA 50 kA
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger 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 • according UL operational current / at AC / according to UL 489/UL 60947-4-1 / rated value	5 mm 7.5 mm defeatable door-coupling handle No No 50 kA 50 kA 100 A
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger 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 690 V / by gG fuse / rated value	5 mm 7.5 mm defeatable door-coupling handle No No 50 kA 50 kA
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger 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 • according UL operational current / at AC / according to UL 489/UL 60947-4-1 / rated value operational current / at AC / according to UL 508/UL	5 mm 7.5 mm defeatable door-coupling handle No No 50 kA 50 kA 100 A
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger 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 690 V / by gG fuse / rated value operational current / at AC / according to UL 489/UL 60947-4-1 / rated value 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	5 mm 7.5 mm defeatable door-coupling handle No No 50 kA 50 kA 100 A 100 A
hasp thickness / of the bracket locks / minimum hasp thickness / of the bracket locks / maximum special product feature product extension / optional • motor drive • voltage trigger 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 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 489/UL 60947-4-1 / rated value 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 489 / rated value operating voltage / at AC / at 50/60 Hz / according to UL	5 mm 7.5 mm defeatable door-coupling handle No No No 50 kA 50 kA 50 kA 100 A 100 A 480 V

508/UL 60947-4-1 / rated value	
short-time withstand current (SCCR) / at 480 V / according	65 kA
to UL 508/UL 60947-4-1 and UL 489 continuous current / of upstream fuse / according to UL /	100 A
rated value	
type of fuse / according to UL	Class J
Number	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	3
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	5
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
AWG number / as coded connectable conductor cross section / solid	
• minimum	3
• maximum	4/0
AWG number / as coded connectable conductor cross section / solid / according to UL 489	
• minimum	3
AWG number / as coded connectable conductor cross section / solid / according to CSA C22.2 No. 5-16	
• minimum	3
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16185mm²)
 finely stranded / with core end processing 	1x (16150mm²)
stranded	1x (16185mm²)
type of connectable conductor cross-sections / for	
auxiliary contacts	
• 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 gG: 125 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
Mechanical Design	
height	178 mm
width	113 mm
depth	158 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	1 900 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage / minimum	-25 °C
General Product Approval	Declaration of Conformity









UK

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=3LD5410-0TK11 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD5410-0TK11 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD5410-0TK11 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications

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