SIEMENS

Data sheet

3LD3110-0TK05



Load disconnector 3LD3, lu 25 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 9.0kW Installation in distribution boards, Basic switch without Knob-operated mechanism

Model		
product brand name	SENTRON	
product designation	3LD Switch disconnector	
design of the product	Switch	
display version / for switch position indicator manual operation	1 ON - 0 OFF	
design of the actuating element	Without handle	
design of handle	without	
type of the driving mechanism / motor drive	No	
General technical data		
number of poles	3	
number of poles / note	3	
type of device	fixed mounting	
type of switch	DIN-rail mounting	
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	4 kA2.s	
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 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	IP20	
protection class IP / on the front	IP20	
Dissipation		
power loss [W]		
 for rated value of the current / at AC / in hot operating state / per pole 	1.1 W	
• per conductor / typical	1 W	
Current		
operational current		
• at 40 °C / rated value	25 A	
 at 45 °C / rated value 	25 A	
 at 50 °C / rated value 	25 A	
• at 55 °C / rated value	25 A	
• at AC / rated value	25 A	

	00 A
 at AC-23 A / at 400 V / rated value at AC 21 / at 600 V / rated value 	20 A 25 A
 at AC-21 / at 690 V / rated value at AC-21 A / at 240 V / rated value 	25 A 25 A
at AC-21 A / at 240 V / rated value	25 A 25 A
	25 A 25 A
operational current / of upstream fuse / rated value	20 A
let-through current / with closed switch	3.5 kA
 at 440 V / for combination switch + gG fuse / maximum 	5.5 MA
 at 690 V / for combination switch + gG fuse / maximum permissible 	4 kA
Main circuit	
operating power	
• at AC-23 A / at 240 V / rated value	4 kW
 at AC-23 A / at 400 V / rated value 	10 kW
 at AC-23 A / at 440 V / rated value 	9 kW
 at AC-23 A / at 690 V / rated value 	9 kW
 at AC-3 / at 240 V / rated value 	4 kW
 at AC-3 / at 400 V / rated value 	8 kW
• at AC-3 / at 690 V / rated value	7.5 kW
operational current / rated value	25 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	Yes
safety switch	Yes
maintenance/repair switch	Yes
Product details	
product feature	
can be locked into OFF position	No
special product feature	Basic Switch
product extension / optional	
motor drive	No
voltage trigger	No
Short circuit	
conditional short-circuit current / with line-side fuse	
protection	
at 440 V / by gG fuse / rated value	10 kA
 at 690 V / by gG fuse / rated value 	6 kA
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	25 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	10
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	15
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
Number	

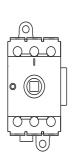
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
Connections	
AWG number / as coded connectable conductor 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 mm²)
stranded	1x (2.5 to 16 mm ²)
type of connectable conductor cross-sections / for auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
 finely stranded / with core end processing 	2x (0.75 1.5 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
Requirements	
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 25 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
Mechanical Design	
height	60 mm
width	36 mm
depth	64 mm
fastening method	Built-in unit fixed-mounted version
fastening method	
 4-hole front mounting 	No
 front mounting with central attachment 	No
rail mounting	Yes
net weight	200 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

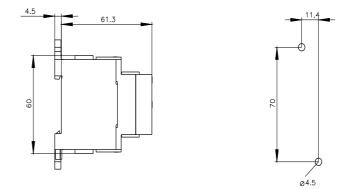
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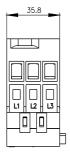
Miscellaneous

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