SIEMENS

Data sheet

3LD2405-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu=250 A, operating power / at AC-23 A 400 V: 132 kW, front-mounted, knoboperated mechanism, red/yellow, 4-hole mounting of the handle

Model		
product brand name	SENTRON	
product designation	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	selector switch	
color of the actuating element	red	
design of handle	knob-operated mechanism, red/yellow	
type of the driving mechanism motor drive	No	
General technical data		
number of poles	3	
size of switch disconnector	5	
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	8 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	36 W	
Main circuit		
operational current		
• at AC-21 at 690 V rated value	250 A	
• at AC-21 A at 240 V rated value	250 A	
• at AC-21 A at 400 V rated value	250 A	
• at AC-21 A at 440 V rated value	250 A	

at AC-23 A at 400 V rated value	224 A
operating power	
at AC-23 A at 240 V rated value	75 kW
at AC-23 A at 400 V rated value	132 kW
• at AC-23 A at 440 V rated value	132 kW
at AC-23 A at 690 V rated value	55 kW
• at AC-3 at 240 V rated value	55 kW
at AC-3 at 400 V rated value	110 kW
at AC-3 at 690 V rated value	45 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
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use 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	3
number of connectable NO contacts for auxiliary contacts attachable maximum	3
number of connectable CO contacts for auxiliary contacts attachable maximum	0
number of bracket locks maximum	3
hasp thickness of the bracket locks	4 6 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 	15 kA
 at 440 V for combination switch + gG fuse maximum 	15 kA
 at 690 V for combination switch + gG fuse maximum permissible 	15 kA
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	557 kA2.s
 at 440 V for combination switch + gG fuse maximum 	557 kA2.s
 at 690 V for combination switch + gG fuse maximum 	557 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit required 	fuse gL/gG: 250 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current of upstream fuse rated value	250 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	250 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
operating voltage at AC at 50/60 Hz 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	100
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL	

UL 508/UL 60947-4-1	
continuous current of upstream fuse according to UL rated value	200 A
type of fuse according to UL	RK5
Connections	
AWG number as coded connectable conductor cross section solid maximum	
•	1 4/0
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 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
 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
Mechanical Design	
height	169 mm
width	112 mm
depth	94 mm
type of device	fixed mounting
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	2 093 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
Approvals Certificates	
General Product Approval	
CCC EG-Konf.	
other Environment	
Confirmation Miscellaneous Environmental	
firmations	<u>s</u> <u>firmations</u>

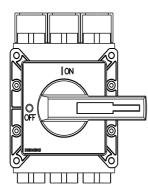
Information on the packaging <u>https://support.industry.siemens.com/cs/ww/en/view/109813875</u> Information- and Downloadcenter (Catalogs, Brochures,...) <u>http://www.siemens.com/lowvoltage/catalogs</u>

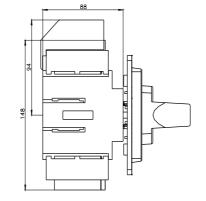
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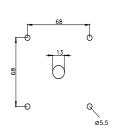
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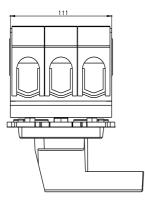
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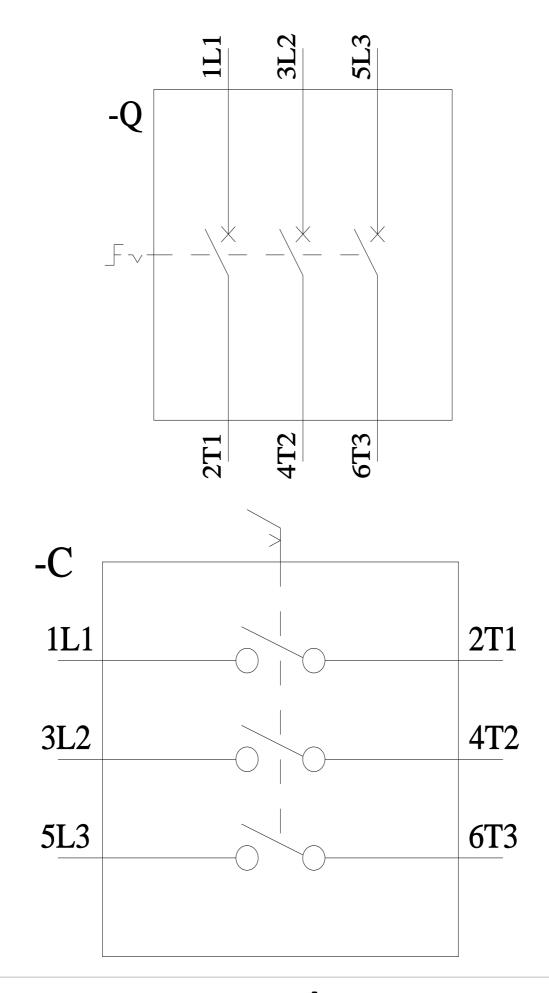
http://www.siemens.com/specifications











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