SIEMENS

Data sheet 3LD2430-0TK11

SENTRON, Switch disconnector 3LD, main switch, 3-pole, Iu=250 A, Operating power / at AC-23 A at 400 V: 132 kW, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch

Model	
product brand name	SENTRON
product designation	3LD Switch disconnector
design of the product	Main switch
display version for switch position indicator manual operation	1 ON - 0 OFF
type of switch	DIN-rail mounting
design of the actuating element	selector switch
color of the actuating element	black
design of handle	knob-operated mechanism, black
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	IP40
protection class IP on the front	IP40
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	36 W
Current	
operational current rated value	250 A
operational current	
● at 40 °C rated value	250 A
● at 45 °C rated value	250 A
● at 50 °C rated value	250 A
● at 55 °C rated value	250 A
● at AC rated value	250 A

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
● switch disconnector	Yes
● EMERGENCY OFF switch	No
● 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	4
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	

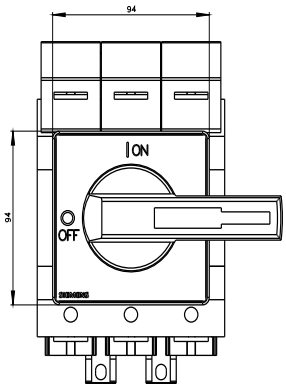
operational current at AC according to UL 508/UL 60947-4-1 rated value	250 A
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value	600 V
active power [hp] at AC at 480 V according to UL 508/UL 60947-4-1 rated value	100
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	75
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	10 kA
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	
● minimum	1
type of connectable conductor cross-sections for copper conductor	
● solid	1x (16 ...185mm²)
● finely stranded with core end processing	1x (16...150mm²)
● stranded	1x (16...185mm²)
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	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	No
● front mounting with central attachment	No
● rail mounting	No
net weight	2 030 g
Environmental conditions	
ambient temperature during operation	
● minimum	-25 °C
● maximum	55 °C
ambient temperature during storage	
● minimum	-25 °C
● maximum	55 °C

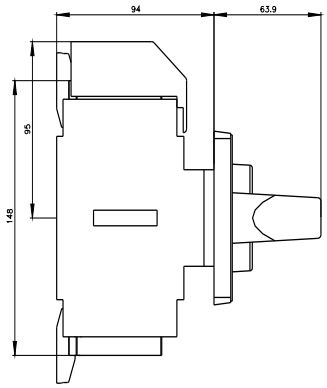
General Product Approval					Declaration of Conformity
CSA	Confirmation	CCC	UL	EAC	UKCA

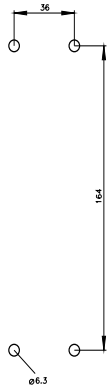
Declaration of Conformity	Test Certificates		other		
CE EG-Konf.	Type Test Certificates/Test Report	Special Test Certificate	Environmental Confirmations	Confirmation	Miscellaneous

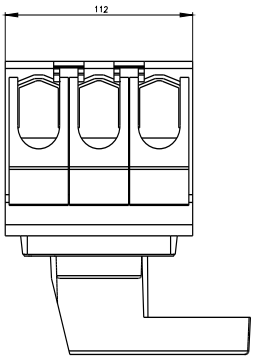
Further information

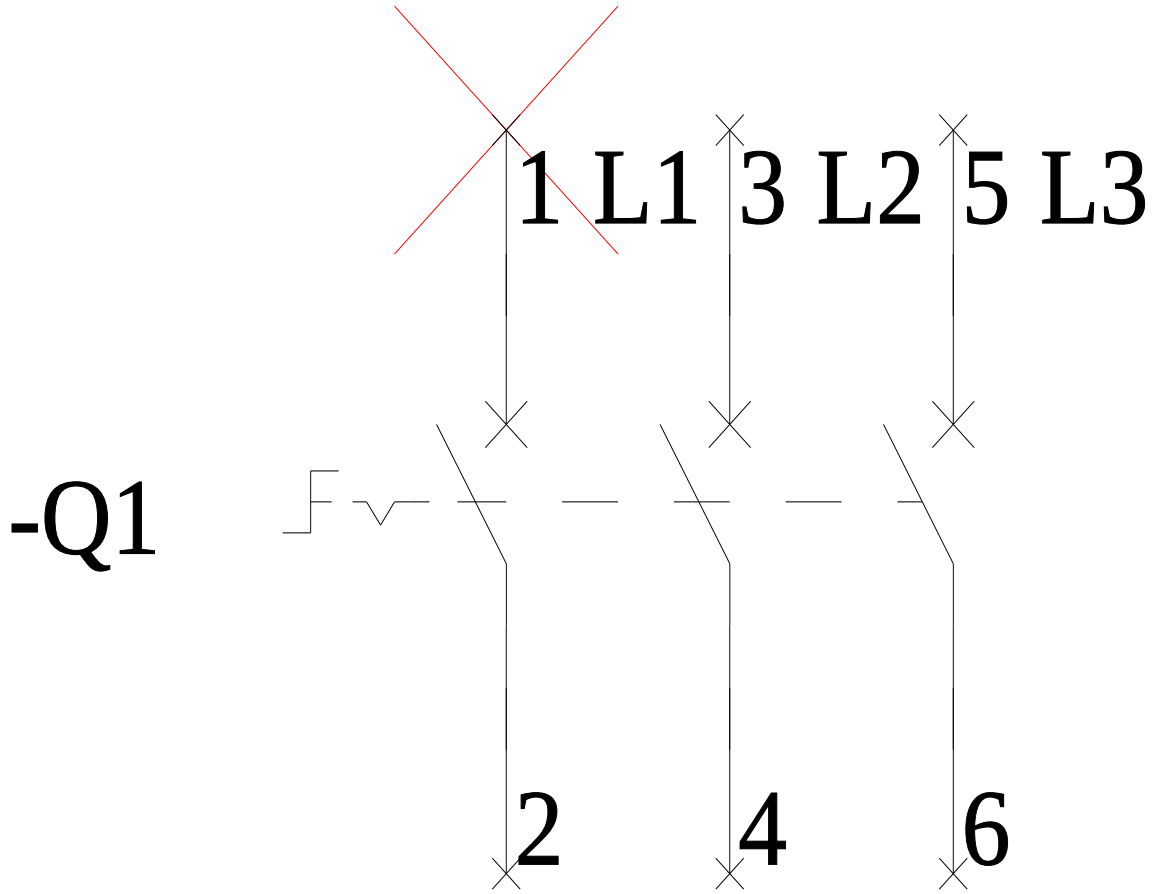
Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/lowvoltage/catalogs
Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2430-0TK11
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3LD2430-0TK11
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2430-0TK11
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications











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