SIEMENS

Data sheet

3LD2430-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu=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
design of the actuating element	selector switch
design of handle	knob-operated 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	DIN-rail mounting
size of switch disconnector	5
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	557 kA2.s
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	557 kA2.s
operating frequency / maximum	50 1/h
Voltage	
insulation voltage / rated value	690 V
surge voltage resistance / rated value	8 kV
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
 per conductor / typical 	36 W
Current	
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

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at AC-23 A / at 400 V / rated value	224 A
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 440 V / rated value	250 A
operational current / of upstream fuse / rated value	250 A
let-through current / with closed switch	
 at 440 V / for combination switch + gG fuse / maximum 	15 kA
 at 690 V / for combination switch + gG fuse / maximum permissible 	15 kA
Main circuit	
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
operational current / rated value	250 A
Auxiliary circuit	
	0
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	black
Product details	
product feature	Vee
can be locked into OFF position	Yes
number of bracket locks / maximum	3
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	6 mm
product extension / optional	
motor drive	No
voltage trigger	No
Short circuit	
conditional short-circuit current / with line-side fuse	
protection	
 • at 690 V / by gG fuse / rated value 	50 kA
• at 690 V / by gG fuse / rated value	50 kA
• at 690 V / by gG fuse / rated value according UL operational current / at AC / according to UL 508/UL	50 kA 250 A
• at 690 V / by gG fuse / rated value according UL 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	
• at 690 V / by gG fuse / rated value according UL 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 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL	250 A
• at 690 V / by gG fuse / rated value according UL 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 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 active power [hp] / at AC / at 600 V / according to UL	250 A 600 V
• at 690 V / by gG fuse / rated value according UL 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 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	250 A 600 V 100
• at 690 V / by gG fuse / rated value according UL 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 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 active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	250 A 600 V 100 75

rated value	
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	1
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type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16185mm ²)
 finely stranded / with core end processing stranded 	1x (16150mm²) 1x (16185mm²)
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 mm ²), 1x 4 mm 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 gL/gG: 250 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
Mechanical Design	
height	169 mm
width	112 mm
depth	94 mm
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
General Product Approval	Declaration of Conformity
Confirmation	י ש נמר טא
CSA CCC	
Declaration of	
Conformity Test Certificates	other



Special Test Certificate

Environmental Confirmations

Miscellaneous

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

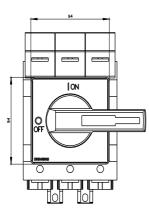
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2430-0TK11

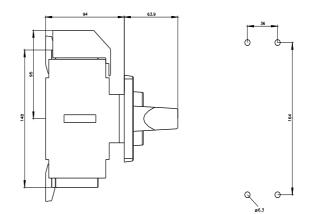
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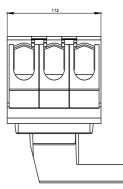
http://www.siemens.com/cax

Tender specifications

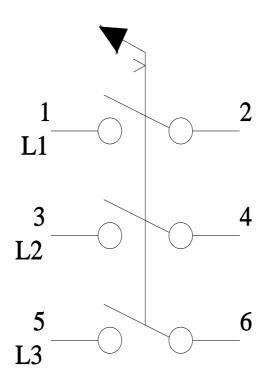
http://www.siemens.com/specifications







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