SIEMENS

Data sheet

3LD2430-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3pole, Iu=250 A, operating power / at AC-23 A 400 V: 132 kW, installation in distribution boards, knob-operated mechanism, Red / yellow, handle direct at the switch

Model		
product brand name	SENTRON	
product designation	3LD Switch disconnector	
design of the product	EMERGENCY-STOP 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, red/yellow	
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	
operational current / at AC / rated value	250 A	
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 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 240 V / rated value	250 A
operational current / of upstream fuse / rated value	250 A
let-through current / with closed switch	250 A
• at 440 V / for combination switch + gG fuse /	15 kA
maximum	
 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	
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
Appearance	
color / of the actuating element	red
Product details	
 product function / 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
according UL	
operational current / at AC / according to UL 508/UL	250 A
60947-4-1 / rated value operating voltage / at AC / at 50/60 Hz / according to UL	600 V
508/UL 60947-4-1 / rated value active power [hp] / at AC / at 480 V / according to UL	100
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	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
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	
• minimum	1
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	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
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 Environmental conditions	2 047 g
ambient temperature / during operation minimum 	-25 °C
• maximum	-25 °C 55 °C
maximum ambient temperature / during storage / minimum	-25 °C
Certificates	
reference code	
acc. to DIN EN 61346-2	S
• acc. to IEC 81346-2	SF
General Product Approval	Declaration of Conformity Test Certificates
	EDF C C C C C C C C C C
	EFIL EG-Konf.

other

Environmental **Confirmations**

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=3LD2430-0TK13

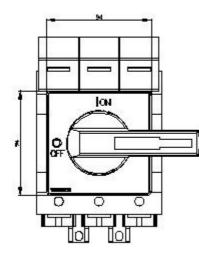
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

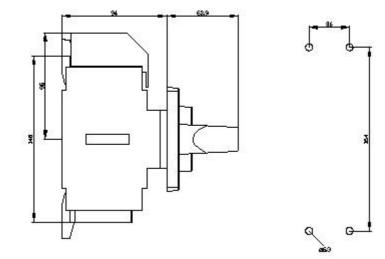
https://support.industry.siemens.com/cs/ww/en/ps/3LD2430-0TK13

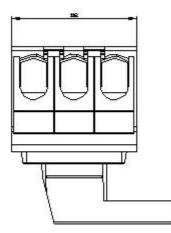
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2430-0TK13

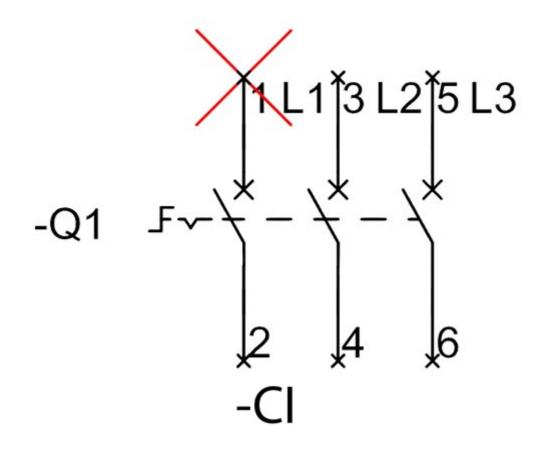
Tender specifications

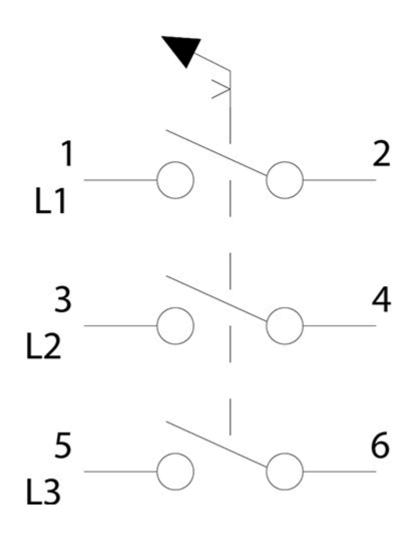
http://www.siemens.com/specifications











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