SIEMENS

Data sheet 3LD3030-1TK13



Load disconnector 3LD3, lu 16 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 7.5kW Installation in distribution boards, Basic switch with selector knob red / yellow with auxiliary switch 1OE + 1S

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	
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	3 kA2.s	
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	2.5 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	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 	0.5 W	
per conductor / typical	1 W	
Current		
operational current		
• at 40 °C / rated value	16 A	
 at 45 °C / rated value 	16 A	
 at 50 °C / rated value 	16 A	
 at 55 °C / rated value 	16 A	
 at AC / rated value 	16 A	

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• at AC-23 A / at 400 V / rated value	16 A
at AC-21 / at 690 V / rated value	16 A
• at AC-21 A / at 240 V / rated value	16 A
at AC-21 A / at 440 V / rated value	16 A
operational current / of upstream fuse / rated value	16 A
let-through current / with closed switch	0.1.6
 at 440 V / for combination switch + gG fuse / maximum 	3 kA
 at 690 V / for combination switch + gG fuse / maximum permissible 	3 kA
Main circuit	
operating power	
at AC-23 A / at 240 V / rated value	3 kW
at AC-23 A / at 400 V / rated value	8 kW
at AC-23 A / at 440 V / rated value	7.5 kW
at AC-23 A / at 690 V / rated value	8 kW
at AC-3 / at 240 V / rated value	3 kW
at AC-3 / at 400 V / rated value	6 kW
at AC-3 / at 690 V / rated value	5.5 kW
operational current / rated value	16 A
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	1
number of NO contacts / for auxiliary contacts	1
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
Switch disconnector EMERGENCY OFF switch	Yes
• safety switch	Yes
maintenance/repair switch	Yes
Appearance	
color / of the actuating element	red
Product details	
product feature	
can be locked into OFF position	Yes
number of bracket locks / maximum	2
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum	6 mm
special product feature	Can be locked in zero position
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	16 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	7.5
active power [hp] / at AC / at 600 V / according to UL	
508/UL 60947-4-1 / rated value	10
508/UL 60947-4-1 / rated value short-time withstand current (SCCR) / at 600 V / according	10 5 kA

to UL 508/UL 60947-4-1	50.4
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 mm²)
 finely stranded / with core end processing 	1x (2.516 mm²)
• stranded	1x (2.5 to 16 mm²)
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: 20 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
Mechanical Design	
height	60 mm
width	47 mm
depth	77 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	
	-25 °C
• minimum	
• maximum	55 °C



Confirmation









other

Miscellaneous

Further information

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=3LD3030-1TK13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3030-1TK13

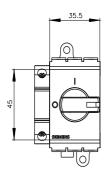
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3030-1TK13

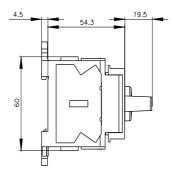
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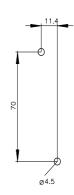
http://www.siemens.com/cax

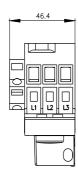
Tender specifications

http://www.siemens.com/specifications









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