SIEMENS

Data sheet 3LD3030-1TL13



Load disconnector 3LD3, Iu 16 A Main switch 3-pole + N 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 10E + 1S

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	DIN-rail mounting
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	4
number of poles note	4
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	6 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	0.5 W
Main circuit	
operational current	
• 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 400 V rated value	16 A
• at AC-21 A at 440 V rated value	16 A
• at AC-23 A at 400 V rated value	16 A
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
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
EMERGENCY OFF switch	Yes
safety switch	Yes
maintenance/repair switch	Yes
• maintenance/repail switch Product details	160
	Can be lacked in zero position
special product feature	Can be locked in zero position
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	2
hasp thickness of the bracket locks	4 6 mm
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
let-through current with closed switch	
 at 240 V for combination switch + gG fuse maximum 	3 kA
■ at 440 V for combination switch + gG fuse maximum	3 kA
 at 690 V for combination switch + gG fuse maximum 	3 kA
permissible	
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	2.5 kA2.s
• at 440 V for combination switch + gG fuse maximum	2.5 kA2.s
• at 690 V for combination switch + gG fuse maximum	3 kA2.s
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
operational current of upstream fuse rated value	16 A
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
short-time withstand current (SCCR) at 600 V according to UL	5 kA
to the second se	

SSRUL 60947-4-1 continuous current of upstream fuse according to UL rated value type of fuse according to UL Connections AWG number as coded connectable conductor cross section solid • maximum • minimum 14 type of connectable conductor cross-sections for copper conductor • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded type of electrical connection • for main current circuit • for auxiliary contacts Mechanical Design height • 60 mm width • 60 mm depth 77 mm type of device fixed mounting • fastening method • 4-hole front mounting • front mounting • front mounting with central attachment • rail mounting • front mounting operation • minimum • 25 °C • maximum • first FK5 RK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK5 BK		
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Morphanical Design		
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conductor • solid • finely stranded with core end processing • stranded 1x (2.5 to 16 mm²) • stranded 1x (2.5 to 16 mm²) • stranded 1x (2.5 to 16 mm²) 1x (2.	• minimum	14
• finely stranded with core end processing • stranded type of connectable conductor cross-sections for auxiliary contacts • solid • solid • stranded with core end processing • stranded with core end processing • stranded with core end processing • stranded • finely stranded with core end processing • stranded type of electrical connection • for main current circuit • for auxiliary contacts Solid 2x (0.75 2.5 mm²), 1x 4 mm²		
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type of connectable conductor cross-sections for auxiliary contacts • solid • finely stranded with core end processing • stranded 2x (0.75 2.5 mm²), 1x 4 mm² • stranded 2x (0.75 2.5 mm²), 1x 2.5 mm² • stranded 2x (0.75 2.5 mm²), 1x 4 mm² type of electrical connection • for main current circuit • for auxiliary contacts Mechanical Design height 60 mm width 60 mm type of device fixed mounting fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight 2x0,75 2.5 mm²), 1x 4 mm² box terminals 60 mm 60 mm 60 mm 77 mm type of device fixed mounting fastening method • 4-hole front mounting • Yes net weight 200 g Environmental conditions ambient temperature during operation • minimum • -25 °C ambient temperature during storage • minimum • -25 °C ambient temperature during storage • minimum • -25 °C • maximum	 finely stranded with core end processing 	1x (2.516 mm²)
contacts • solid	stranded	1x (2.5 to 16 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 Mechanical Design height 60 mm width 60 mm depth 77 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 Yes net weight 200 g Environmental conditions ambient temperature during operation maximum -25 °C maximum 55 °C		
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type of electrical connection	 finely stranded with core end processing 	2x (0.75 1.5 mm²), 1x 2.5 mm²
• for main current circuit • for auxiliary contacts Mechanical Design height height height height depth depth type of device fixed mounting fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • minimum • c25 °C ambient temperature during storage • minimum • rail mounting * rail mounting * storage • minimum for c25 °C * c * maximum * c25 °C * c * maximum * c35 °C * c * maximum * storage * minimum * c25 °C * c * maximum * c35 °C * c * maximum * storage * minimum * c35 °C * c * maximum * storage * minimum * c35 °C * c * maximum * storage * minimum * c35 °C * c * maximum * storage * minimum * c35 °C * c * maximum * storage * minimum * c35 °C * c * maximum * storage * storage * minimum * c35 °C * c * storage *	stranded	2x (0.75 2.5 mm²), 1x 4 mm²
• for auxiliary contacts Mechanical Design height	type of electrical connection	
Mechanical Design height 60 mm width 60 mm depth 77 mm type of device fixed mounting fastening method Built-in unit fixed-mounted version fastening method No • 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 • maximum 55 °C ambient temperature during storage -25 °C • minimum -25 °C • maximum 55 °C	for main current circuit	box terminal
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type of device fixed mounting fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • maximum • minimum • maximum -25 °C ambient temperature during storage • minimum -25 °C -25 °C -25 °C -25 °C	width	60 mm
fastening method fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting net weight Environmental conditions ambient temperature during operation • maximum • maximum -25 °C ambient temperature during storage • minimum -25 °C • maximum -25 °C • maximum -25 °C	depth	77 mm
fastening method • 4-hole front mounting • front mounting with central attachment • rail mounting residually residual	type of device	fixed mounting
4-hole front mounting front mounting with central attachment rail mounting Yes net weight 200 g Environmental conditions ambient temperature during operation minimum -25 °C maximum 55 °C ambient temperature during storage minimum -25 °C ambient temperature during storage minimum 55 °C	fastening method	Built-in unit fixed-mounted version
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 rail mounting net weight 200 g Environmental conditions ambient temperature during operation minimum -25 °C maximum 55 °C ambient temperature during storage minimum -25 °C maximum 55 °C 	 4-hole front mounting 	No
net weight Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C • maximum 55 °C	 front mounting with central attachment 	No
Environmental conditions ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C • maximum 55 °C	rail mounting	Yes
ambient temperature during operation • minimum • maximum 55 °C ambient temperature during storage • minimum -25 °C • maximum 55 °C	net weight	200 g
 minimum -25 °C maximum 55 °C ambient temperature during storage minimum -25 °C maximum 55 °C 	Environmental conditions	
 maximum 55 °C ambient temperature during storage minimum -25 °C maximum 55 °C 	ambient temperature during operation	
ambient temperature during storage • minimum -25 °C • maximum 55 °C	• minimum	-25 °C
 minimum -25 °C maximum 55 °C 	maximum	55 °C
• maximum 55 °C	ambient temperature during storage	
	• minimum	-25 °C
General Product Approval Declaration of Conformity	maximum	55 °C
	General Product Approval	Declaration of Conformity



Confirmation









other Environment

<u>Confirmation</u> <u>Miscellaneous</u> <u>Environmental Confirmations</u>

urther information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3LD3030-1TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3030-1TL13

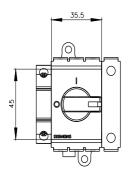
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3030-1TL13

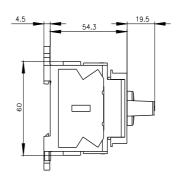
CAx-Online-Generator

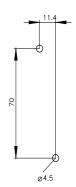
http://www.siemens.com/cax

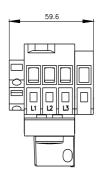
Tender specifications

http://www.siemens.com/specifications









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