SIEMENS

Data sheet 3LD3130-1TK11



3LD3 switch disconnector, lu 25 A main switch 3-pole rated operational power at AC-23 A at 400V 9.0kW installation in distribution boards basic switch with knob-operated mechanism black with auxiliary switches 1 NO + 1 NC

number of poles number of poles note number of poles note 3 mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum fegree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage • at AC rated value 690 V operating voltage • at AC rated value 690 V operating frequency rated value 100 Hz Protection class IP IP40 protection class IP on the front IP40	Model	
design of the product display version for switch position indicator manual operation type of switch DiN-rail mounting design of the actuating element eloir of the actuating element eloir of the actuating element black cloor of the actuating element black design of handle knob-operated mechanism, black type of the driving mechanism motor drive number of poles number of poles number of poles note number of poles note activation electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) at AC-23 Ast 890 V operating frequency maximum of poles rated value surge voltage rated value surge voltage rated value at AC rated value operating voltage at AC rated value operating frequency rated value ominimum and AC rated value ominimum and Collectrical endurance maximum Protection class IP protection class IP protection class IP IP40 protection class IP40 pr	product brand name	SENTRON
dispay version for switch position indicator manual operation 1 ON - 0 OFF operation DIN-rall 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 Ceneral technical data The control of the	product designation	Switch disconnector
type of switch DIN-rail mounting	design of the product	Main switch
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 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 electrical endurance (operating cycles) 50 1/h electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage 690 V e at AC rated value 690 V operating frequency rated value 60 Hz e minimum 60 Hz Protection class IP protection class IP on the front IP40 Dissipation 11 W operating slate per pole 11 W dat AC -21 at 690 V rate		1 ON - 0 OFF
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 number of poles note 3 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage 690 V operating frequency rated value 690 V Operating frequency rated value e minimum 60 Hz Protection class IP on the front IP40 Protection class IP on the front IP40 Driving frequency rated value of the current at AC in hot operating state per pole Main circuit 1.1 W Operating frequency rated value of the current at AC in hot operating state per pole	type of switch	DIN-rail mounting
design of handle knob-operated mechanism, black type of the driving mechanism motor drive No General technical data number of poles onte 3 number of poles note 3 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 6 000 operating frequency maximum 550 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V operating voltage resistance rated value 690 V operating frequency maximum 60 Hz operating frequency rated value 690 V operating voltage resistance rated value 690 V operating frequency rated value 600 Hz operating frequency rated value 600 Hz protection class IP protection class IP IP40 Dissipation power loss IV) for rated value of the current at AC in hot operating state per pole Main circuit operational current 4 AC value 25 A at AC-21 A at 240 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A	design of the actuating element	selector switch
type of the driving mechanism motor drive General technical data number of poles number of poles note a s mechanical service life (operating cycles) typical electrical endurance (operating cycles) at AC-23 A at 690 V operating frequency maximum degree of pollution surge voltage resistance rated value operating routage at AC rated value operating frequency rated value minimum minimu	color of the actuating element	black
Seneral technical data	design of handle	knob-operated mechanism, black
number of poles 3 number of poles note 3 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 • 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 50 Hz • maximum Protection class IP40 Protection class IP on the front IP40 Dissipation IP40 IP40 IP50 Dissipation state per pole I.1 W II.1 W II.1 W operating state per pole 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 240 V rated value 25 A •	type of the driving mechanism motor drive	No
number of poles note 3 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 • 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 690 V • at AC rated value 690 V operating frequency rated value 60 Hz • maximum 50 Hz • maximum 60 Hz Protection class IP protection class IP on the front IP40 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 400 V rated value 25 A • at AC-21 A at 400 V rated value 25 A • at AC-21 A at 400 V rated value 25 A • at AC-21 A at 400 V rated value 25	General technical data	
mechanical service life (operating cycles) typical electrical endurance (operating cycles)	number of poles	3
electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum foo 1/h degree of pollution 3 voltage insulation voltage rated value operating voltage • at AC rated value • minimum • maximum foo Hz Protection class IP protection class IP on the front Dissipation power loss [M] for rated value of the current at AC in hot operating state per pole Main circuit operation at AC-21 At 24 0V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	number of poles note	3
at AC-23 A at 690 V 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 690 V operating frequency rated value 600 Hz Protection class Protection class IP protection class IP IP40 protection class IP IP40 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current at AC-21 at 690 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 25 A	mechanical service life (operating cycles) typical	100 000
operating frequency maximum 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 • maximum 60 Hz Protection class IP 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	electrical endurance (operating cycles)	
degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage • at AC rated value 690 V operating frequency rated value • minimum • maximum 50 Hz • maximum 60 Hz Protection class IP protection class IP IP40 protection class IP IP40 Dissipation Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 440 V rated value	• at AC-23 A at 690 V	6 000
Insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage	operating frequency maximum	50 1/h
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 • maximum 50 Hz • maximum 60 Hz Protection class IP 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	degree of pollution	3
surge voltage resistance rated value operating voltage o at AC rated value ominimum omaximum omaximum	Voltage	
operating voltage	insulation voltage rated value	690 V
 at AC rated value operating frequency rated value minimum fo Hz maximum fo Hz Protection class protection class IP 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 Main circuit operational current at AC-21 at 690 V rated value at AC-21 A at 440 V rated value 	surge voltage resistance rated value	6 kV
operating frequency rated value	operating voltage	
	at AC rated value	690 V
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 Main circuit operational current at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value	operating frequency rated value	
Protection class IP 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	• minimum	50 Hz
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 Main circuit operational current • at AC-21 at 690 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A • at AC-21 A at 440 V rated value 25 A	• maximum	60 Hz
protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	Protection class	
power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	protection class IP	IP40
power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	protection class IP on the front	IP40
operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	Dissipation	
operational current • at AC-21 at 690 V rated value 25 A • at AC-21 A at 240 V rated value 25 A • at AC-21 A at 400 V rated value 25 A • at AC-21 A at 440 V rated value 25 A		1.1 W
 at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value at AC-21 A at 440 V rated value 	Main circuit	
 at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 25 A 25 A 	operational current	
 at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 25 A at AC-21 A at 440 V rated value 	• at AC-21 at 690 V rated value	25 A
at AC-21 A at 440 V rated value 25 A	• at AC-21 A at 240 V rated value	25 A
	• at AC-21 A at 400 V rated value	25 A
at AC-23 A at 400 V rated value 20 A	• at AC-21 A at 440 V rated value	25 A
	• at AC-23 A at 400 V rated value	20 A

operating power	
 at AC-23 A at 240 V rated value 	4 kW
at AC-23 A at 400 V rated value	10 kW
 at AC-23 A at 440 V rated value 	9 kW
 at AC-23 A at 690 V rated value 	9 kW
 at AC-3 at 240 V rated value 	4 kW
 at AC-3 at 400 V rated value 	8 kW
 at AC-3 at 690 V rated value 	7.5 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
	300 V
Suitability	V
suitability for use main switch	Yes
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	No
suitability for use safety switch	Yes
suitability for use maintenance/repair switch	Yes
Product details	
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	3.5 kA
at 440 V for combination switch + gG fuse maximum	3.5 kA
at 690 V for combination switch + gG fuse maximum	4 kA
permissible	
I2t value with closed switch	
• at 240 V for combination switch + gG fuse maximum	4 kA2.s
• at 440 V for combination switch + gG fuse maximum	4 kA2.s
 at 690 V for combination switch + gG fuse maximum 	4 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	fuse gL/gG: 25 A
for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
operational current of upstream fuse rated value	25 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	25 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	10
active power [hp] at AC at 600 V according to UL 508/UL	15
60947-4-1 rated value	

short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	5 kA	
continuous current of upstream fuse according to UL rated value	50 A	
type of fuse according to UL	RK5	
Connections		
AWG number as coded connectable conductor cross section solid maximum		
•	6	
•	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	
Mechanical Design		
height	60 mm	
width	47 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	172 g	
Environmental conditions		
ambient temperature during operation		
• minimum	-25 °C	
maximum	55 °C	
ambient temperature during storage		
• minimum	-25 °C	
maximum	55 °C	
Approvals Certificates		
General Product Approval		other













other Environment

<u>Confirmation</u> <u>Environmental Confirmations</u> <u>Environmental Confirmations</u> <u>firmations</u>

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information for data generation and storage

https://support.industry.siemens.com/cs/ww/en/view/109995012

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=3LD3130-1TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3130-1TK11

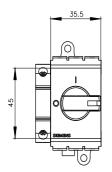
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3130-1TK11

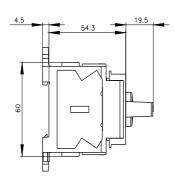
CAx-Online-Generator

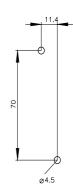
http://www.siemens.com/cax

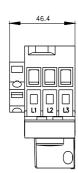
Tender specifications

http://www.siemens.com/specifications









last modified:

4/14/2025