SIEMENS

Data sheet 3LD3130-0TK11



Load disconnector 3LD3, lu 25 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 9.0kW Installation in distribution boards, Basic switch with selector knob black

product brand name product designation design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element color / of the actuating element black design of handle type of the driving mechanism / motor drive design of handle type of the driving mechanism / motor drive No General technical data number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A/ at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum 50 Hz • maximum 50 Hz • maximum 50 Hz • minimum • minimum • minimum • minimum • minimum 50 Hz 50 Hz 50 Hz 60 Hz 7 C rated value of the current / at AC / in hot operational current / rated value of the current / at AC / in hot operational current / rated value • at 40 °C / rated value • at 40 °C / rated value • at 45 °C / rated value • at 50 °C / rated value • at 50 °C / rated value	Model			
design of the product display version / for switch position indicator manual operation type of switch DIN-rail mounting design of the actuating element design of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No General technical data number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical degree of pollution • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 **Voltage** insulation voltage / rated value operating voltage resistance / rated value • minimum • maximum • maximum 50 Hz • naximum 50 Hz Protection class IP protection class IP protection class IP on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 45 °C / rated value	product brand name	SENTRON		
display version / for switch position indicator manual operation type of switch design of the actuating element color / of the actuating element design of handle type of ithe driving mechanism / motor drive No Ceneral technical data number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / 6 000 operating frequency / maximum for operating voltage / rated value operating voltage resistance / rated value • at AC / Tated value • minimum • maximum protection class IP protection class IP IP40 protection class IP IP40 protection class IP On the front Dissipation power loss [M] / for rated value operational current / rated value operational current / rated value • at 45 °C / rated value	product designation			
operation type of switch design of the actuating element color / of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive General technical data number of poles number of poles / note sectional service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A I at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value • at AC / rated value • maximum protection class IP protection class IP / on the front Dissipation Dissipation Current operating alter of value • at 45 °C / rated value	design of the product	Main switch		
design of the actuating element black color / of the actuating element black color / of the actuating element black color / of the actuating element black knob-operated mechanism, black type of the driving mechanism / motor drive No Ceneral technical data number of poles 3 number of poles 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / e 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 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operational current / rated value 690 V operating frequency	, ,			
color / of the actuating element design of handle type of the driving mechanism / motor drive No General technical data number of poles number of poles / note number of poles / note electrical endurance (switching cycles) / typical / 100 000 electrical endurance (switching cycles) / typical / 100 000 electrical endurance (switching cycles) • at AC-23 A / at 690 V	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 / note 3 number of poles / note 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles)	design of the actuating element	selector switch		
type of the driving mechanism / motor drive General technical data number of poles 3 number of poles / note mechanical service life (switching cycles) / typical / 100 000 electrical endurance (switching 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 frequency / rated value / 690 V operating frequency / rated value / 690 V operating voltage resistance / rated value / 690 V operating voltage resistance / rated value / 690 V operating voltage resistance / rated value / 690 V operating frequency / rated value / 690 V operating frequency / rated value / 60 Hz Protection class protection class IP / on the front / IP40 Dissipation / IP40 Dissipation / IP40 Dissipation / IP40 Current / rated value / 25 A operational current / rated value / 25 A	color / of the actuating element	black		
number of poles number of poles / note mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching 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 requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 700 Hz Operational current / rate	design of handle	knob-operated mechanism, black		
number of poles 3 number of poles / note 3 number of poles / note 3 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching 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 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating recupency / rated value 690 V operating frequency / rated value 690 V operation class IP protection class IP protection class IP / on the front IP40 Dissipation opwer loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 25 A operational current / rated value 25 A • at 45 °C / rated value 25 A	type of the driving mechanism / motor drive	No		
number of poles / note mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching 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 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 600 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 Current operational current / rated value 25 A operational current rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	General technical data			
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electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 7	number of poles / note	3		
• at AC-23 A / at 690 V operating frequency / maximum degree of pollution 70tage insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value • minimum • maximum 60 Hz Protection class IP protection class IP / protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	mechanical service life (switching cycles) / typical	100 000		
operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value • minimum • maximum • maximum Frotection class protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	electrical endurance (switching cycles)			
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at AC / rated value operating frequency / rated value ininimum maximum for Hz Protection class protection class IP protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value at 40 °C / rated value at 45 °C / rated value 25 A operational current value 25 A at 45 °C / rated value 25 A	surge voltage resistance / rated value	6 kV		
operating frequency / rated value	operating voltage			
	at AC / rated value	690 V		
	operating frequency / rated value			
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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 Current operational current / rated value operational current operational cur	• maximum	60 Hz		
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hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	Dissipation			
operational current / rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A		1.1 W		
operational current • at 40 °C / rated value • at 45 °C / rated value 25 A 25 A	Current			
operational current • at 40 °C / rated value • at 45 °C / rated value 25 A 25 A	operational current / rated value	25 A		
• at 45 °C / rated value 25 A				
	• at 40 °C / rated value	25 A		
• at 50 °C / rated value 25 A	• at 45 °C / rated value	25 A		
	• at 50 °C / rated value	25 A		

at 55 °C / rated value	25 A
 at 55 °C / rated value at AC / rated value 	25 A 25 A
at AC / rated value Main circuit	207
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 240 V / rated value at AC-21 A / at 400 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-23 A / at 400 V / rated value	20 A
operating power	2071
• 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	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
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 permissible 	4 kA
I2t value / with closed switch	
 at 240 V / for combination switch + gG fuse / maximum 	4 kA2.s

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 at 440 V / for combination switch + gG fuse / maximum 	4 kA2.s		
at 690 V / for combination switch + gG fuse /	4 kA2.s		
maximum			
design of the fuse link			
 for short-circuit protection of the main circuit / 	fuse gL/gG: 25 A		
required			
for short-circuit protection of the auxiliary switch / required.	fuse gL/gG: 10 A		
required	25 A		
operational current / of upstream fuse / rated value	25 A		
according UL	05.4		
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 60947-4-1 / rated value	15		
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		
• 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 m	m²	
type of electrical connection			
for main current circuit	box terminal		
for auxiliary contacts	Box terminals		
Mechanical Design			
height	60 mm		
width	36 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	0.5.00		
• minimum	-25 °C		
• maximum	55 °C		
ambient temperature / during storage	25 °C		
• minimum	-25 °C		
• maximum	55 °C	Declaration of Of	
General Product Approval		Declaration of Conformity	











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=3LD3130-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3130-0TK11

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3130-0TK11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







