SIEMENS

Data sheet 3LD3130-0TL13



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

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 color / of the actuating element design of handle type of switch design of handle design of handle type of switch design of handle design of handle type of the driving mechanism / motor drive General technical data number of poles number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / 6 000 operating frequency / maximum degree of pollution 3 Voltage insulation voltage / 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 color / of the actuating element design of handle knob-operated mechanism, red/yellow type of the driving mechanism / motor drive No Conoral technical data number of poles / note mechanical service life (switching cycles) / typical / 100 000 electrical endurance (switching cycles) / typical / 4 000 000 electrical endurance (switching cycles) / typical / 4 000 000 electrical endurance (switching cycles) / typical / 4 000 000 electrical endurance (switching cycles) / 4 000 000 electrica	product brand name	SENTRON		
display version / for switch position indicator manual operation type of switch DIN-rail mounting type of switch design of the actuating element color / of the actuating element type of the driving mechanism / motor drive 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) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage at AC / rated value minimum omaximum foo Hz Protection class IP protection class IP protection class IP IP40 protection class IP / or the front Dissipation power loss [M] / 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 designation			
operation type of switch design of the actuating element color / of the actuating element design of handle knob-operated mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles / note number of poles / note electrical endurance (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 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum • maximum 50 Hz • maximum 60 Hz • maximum 60 Hz • maximum 60 Hz • maximum 60 Hz • ma	design of the product			
design of the actuating element color / of the actuating element red design of handle type of the driving mechanism / motor drive No General technical data number of poles number of poles 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 20 000 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 operating voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating toltage • at AC / rated value 690 V operating frequency / rated value 790 V operating frequency / rated				
color / of the actuating element design of handle type of the driving mechanism / motor drive No Ceneral technical data number of poles number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / o at AC-23 A / at 690 V operating frequency / maximum degree of pollution Surge voltage resistance / rated value operating frequency / rated value operation class IP 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 Current operational current / rated value	type of switch	DIN-rail mounting		
design of handle type of the driving mechanism / motor drive No General technical data number of poles	design of the actuating element	selector switch		
type of the driving mechanism / motor drive General technical data number of poles 4 number of poles / 100 000 electrical endurance (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 frequency / material value 690 V operating voltage / 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 600 Hz Protection class IP 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 Current operational current / rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	color / of the actuating element	red		
number of poles number of poles / note number of poles / note mechanical service life (switching cycles) / typical	design of handle	knob-operated mechanism, red/yellow		
number of poles number of poles / note number of poles / note number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • 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 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 100 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 Current operational current / rated value 25 A operational current / rated value 25 A	type of the driving mechanism / motor drive	No		
number of poles / note mechanical service life (switching cycles) / typical 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 • 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	4		
at AC-23 A / at 690 V operating frequency / maximum fegree of pollution voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value ominimum om	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 IP protection class IP IP40 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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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 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 • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	degree of pollution	3		
surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value minimum maximum foo 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 at 45 °C / rated value 25 A	Voltage			
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz • maximum 60 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 • at 45 °C / rated value 25 A	insulation voltage / rated value	690 V		
■ at AC / rated value Operating frequency / rated value ● minimum ● maximum On Hz Protection class protection class IP 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 Current operational current / rated value operational current ● at 40 °C / rated value ● at 45 °C / rated value ● at 45 °C / rated value ○ 25 A ○ 30 Hz ○ 40 V in Hy in	surge voltage resistance / rated value	6 kV		
operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP protection class IP	operating voltage			
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operational current • at 40 °C / rated value • at 45 °C / rated value 25 A 25 A	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	operational current			
	• 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	20 A
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	2011
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 	Yes
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	
accessories product extension / optional	
	No
product extension / optional	No No
product extension / optional • motor drive	
product extension / optional	No
product extension / optional	No 2
product extension / optional	No 2 4
product extension / optional	No 2 4 0
product extension / optional	No 2 4 0 2
product extension / optional	No 2 4 0 2
product extension / optional	No 2 4 0 2
product extension / optional	No 2 4 0 2 4 6 mm
product extension / optional	No 2 4 0 2 4 6 mm
product extension / optional	No 2 4 0 2 4 6 mm
product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection	No 2 4 0 2 4 6 mm 10 kA 6 kA
product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse /	No 2 4 0 2 4 6 mm 10 kA 6 kA 3.5 kA
product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 440 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse /	No 2 4 0 2 4 6 mm 10 kA 6 kA 3.5 kA

• 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 60947-4-1 / rated value	15	15		
short-time with stand 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	nm²		
type of electrical connection				
for main current circuit	box terminal			
for auxiliary contacts	Box terminals			
Mechanical Design				
height	60 mm			
width	49 mm			
depth type of devices	77 mm			
type of device	fixed mounting Built-in unit fixed-mounted version			
fastening method	Dulit-iri uriit iixea-mounted v	ersion		
fastening method • 4-hole front mounting	No			
4-note front mounting front mounting with central attachment	No No			
rail mounting	Yes			
net weight	200 g			
Environmental conditions	g			
ambient temperature / during operation				
minimum	-25 °C			
• maximum	-25 °C			
ambient temperature / during storage				
minimum	-25 °C			
maximum	55 °C			
General Product Approval		Declaration of Conformity		
		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=3LD3130-0TL13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3130-0TL13

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3130-0TL13

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







