SIEMENS

Data sheet 3LD3140-1TL11



Load disconnector 3LD3, lu 25 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 9.0kW floor mounting Basic switch with door coupling Central hole mounting 22.5mm Toggle drive black 48x48 mm with auxiliary switch 1OE + 1S

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 selector switch design of the actuating element black design of he actuating element design of he actuating element black design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No Genoral tochnical data number of poles / note number of poles / note number of poles / note electrical endurance (switching cycles) / typical 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 Voltago insulation voltage / rated value operating voltage • at AC / trated value • minimum • maximum Frotection class protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value	Model				
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 knob-operated mechanism, black type of the driving mechanism / motor drive Concral technical data number of poles 4 number of poles / note mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V poperating frequency / rated value 690 V poperating requency / rated value 690 V poperation of the front 1P65 13, 38, 4X, 12 protection class IP / on the front 1P65 Dissipation 13, 38, 4X, 12 protection class IP / on the front 1P65 Dissipation 1.1 W 1.1 W operational current / rated value 25 A	product brand name	SENTRON			
display version / for switch position indicator manual operation type of switch	product designation	3LD Switch disconnector			
type of switch type of switch design of the actuating element selector switch selector sel	design of the product	Main switch			
design of the actuating element black color / of the driving mechanism / motor drive No		1 ON - 0 OFF			
color / of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive Ceneral technical data 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 / 6 kV operating frequency / rated value / 690 V operation class IP protection class IP / 600 Hz Dissipation / 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation / 1, 1 W operational current / 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 switch	Floor mounting with door coupling			
design of handle kpp of the driving mechanism / motor drive No Ceneral technical data number of poles 4	design of the actuating element	selector switch			
type of the driving mechanism / motor drive General technical data	color / of the actuating element	black			
Anumber of poles 4	design of handle	knob-operated mechanism, black			
number of poles 4 number of poles / note 4 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 requency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 600 V operating requency / rated value 600 V operating requency / rated value 600 Hz Protection class protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front 1P65 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	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 operating frequency / maximum for the degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum omaximum for Hz Protection class IP degree of protection NEMA rating 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 25 A operational current • at 40 °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 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage resistance / rated value • at AC / rated value • at AC / rated value • minimum • maximum 50 Hz Protection class protection class IP degree of protection NEMA rating 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 25 A operational current • at 40 °C / rated value 25 A	number of poles / note	4			
at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value operating frequency / rated value ominimum o	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 operating frequency / rated value operating frequency / rated value ominimum summ for Hz omaximum Protection class protection class IP degree of protection NEMA rating 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 o at 40 °C / rated value 25 A	electrical endurance (switching cycles)				
degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 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 25 A operational current • at 40 °C / rated value 25 A	• at AC-23 A / at 690 V	6 000			
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operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz 60 Hz Protection class protection class IP degree of protection NEMA rating 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 690 V 690	insulation voltage / rated value	690 V			
at AC / rated value operating frequency / rated value iminimum	surge voltage resistance / rated value	6 kV			
operating frequency / rated value	operating voltage				
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protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 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 25 A	• maximum	60 Hz			
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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 1.1 W 25 A	protection class IP	IP65			
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 25 A	degree of protection NEMA rating	1, 3R, 4X, 12			
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 25 A	protection class IP / on the front	IP65			
hot operating state / per pole Current operational current / rated value operational current operational current operational current 25 A 25 A	Dissipation				
operational current / rated value 25 A operational current • at 40 °C / rated value 25 A		1.1 W			
operational current • at 40 °C / rated value 25 A	Current				
• at 40 °C / rated value 25 A	operational current / rated value	25 A			
	operational current				
• at 45 °C / rated value 25 A	 at 40 °C / rated value 	25 A			
	 at 45 °C / rated value 	25 A			

. == 0.0 () ()	
• at 50 °C / rated value	25 A
• at 55 °C / rated value	25 A
at AC / rated value	25 A
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 400 V / rated value	25 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
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
special product feature	Can be locked in Zero position
product feature / can be locked into OFF position	Yes
	·
product feature / can be locked into OFF position	·
product feature / can be locked into OFF position accessories	·
product feature / can be locked into OFF position accessories product extension / optional	Yes
product feature / can be locked into OFF position accessories product extension / optional • motor drive	Yes No
product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts	Yes No No
product feature / can be locked into OFF position accessories 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	No No 2
product feature / can be locked into OFF position accessories 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	No No 2
product feature / can be locked into OFF position accessories 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	No No 2 4 0
product feature / can be locked into OFF position accessories 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	No No 2 4 0 2
product feature / can be locked into OFF position accessories product extension / optional	No No 2 4 0 2
product feature / can be locked into OFF position accessories 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 No 2 4 0 2
product feature / can be locked into OFF position accessories 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	No No No 2 4 0 2 4 6 mm
product feature / can be locked into OFF position accessories 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	No No 2 4 6 mm
product feature / can be locked into OFF position accessories 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 • at 690 V / by gG fuse / rated value	No No 2 4 0 2 4 6 mm
product feature / can be locked into OFF position accessories 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 • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse /	No No 2 4 0 2 4 6 mm
product feature / can be locked into OFF position accessories 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 No 2 4 0 2 4 6 mm 10 kA 6 kA 3.5 kA
product feature / can be locked into OFF position accessories 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	No No 2 4 0 2 4 6 mm 10 kA 6 kA 3.5 kA 3.5 kA
product feature / can be locked into OFF position accessories 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 / maximum • at 690 V / for combination switch + gG fuse / maximum permissible	No No 2 4 0 2 4 6 mm 10 kA 6 kA 3.5 kA 3.5 kA

maximum	4 14 4 0 0		
 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		
operational current / of upstream fuse / rated value	25 A		
according UL			
operational current / at AC / according to UL 508/UL	25 A		
60947-4-1 / rated value			
operating voltage / at AC / at 50/60 Hz / according to UL 508/UL 60947-4-1 / rated value	600 V	600 V	
active power [hp] / at AC / at 480 V / according to UL 508/UL 60947-4-1 / rated value	10	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 m		
 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 for qualifory contacts	box terminal		
for auxiliary contacts	Box terminals		
Mechanical Design	60		
height	60 mm		
width depth	60 mm 380 mm		
type of device	fixed mounting		
fastening method	Built-in unit fixed-mounted version		
fastening method	Dant in ant inca-mounted v	0.0.0.1	
4-hole front mounting	No		
front mounting with central attachment	Yes		
• rail mounting	Yes		
net weight	300 g		
Environmental conditions			
ambient temperature / during operation			
• minimum	-25 °C		
• maximum	55 °C		
ambient temperature / during storage			
• minimum	-25 °C		
• maximum	55 °C		
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=3LD3140-1TL11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3140-1TL11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3140-1TL11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









