SIEMENS

Data sheet 3LD3148-0TL53



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 Rotary actuator red / yellow 66 x 66 mm

product brand name design of the product 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 the actuating element design of the actuating element design of handle rotary operating mechanism / motor drive Rogeral to five divining mechanism / motor drive No General tochnical data number of poles number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / 14 690 V operating frequency / maximum degree of pollution Voltago Insulation voltage / rated value • at AC / 1 rated value • minimum • maximum 600 Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation Dissipation Overrent • at 40°C / rated value Operating state / per pole Current • at 40°C / rated value • power loss [W] / for rated value • operating state / per pole Current • at 40°C / 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 type of the driving mechanism / motor drive Conoral 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 3 Voltage insulation voltage / rated value operating vilage • at AC / rated value • minimum • maximum 60 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 • at 4 ° C / rated value operating state / per pole Current operational current / rated value 5 A operational current / 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 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) / 6 000 operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum 50 Hz edgree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value operational current / rated value	product designation	3LD Switch disconnector	
operation type of switch design of the actuating element color / of the actuating element design of handle type of the driving mechanism / motor drive 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 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value • minimum • maximum 50 Hz • maxi	design of the product	EMERGENCY-STOP 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 number of poles 4 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 3 Voltage insulation voltage / rated value operating voltage resistance / rated value operating voltage • at AC / rated value • minimum ominimum for Hz maximum for Hz for Hz for Hz for Hz for Tated value minimum for Hz for Hz for Hz for Tated value for Hz for Hz for Tated value for Hz for Tated value for Hz for Hz for Tated value for Fortection class IP for Hz for Tated value of the current / at AC / in for the driving mechanism, red/yellow for tary operating mechanism, polo four operating severation for tary operating mechanism, polo for		1 ON - 0 OFF	
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 electrical endurance (switching cycles) / typical electrical endurance (switching cycl	type of switch	Floor mounting with door coupling	
design of handle type of the driving mechanism / motor drive No General technical data number of poles	design of the actuating element	Short rotary knob	
type of the driving mechanism / motor drive General technical data number of poles 4 number of poles / note 4 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 / 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 P Pf65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class P / on the front Pf65 Dissipation power loss W / for rated value of the current / at AC / in hot operating state / per pole Current 0 at 40 °C / rated value 25 A operational current / rated value 25 A	color / of the actuating element	red	
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 / rated value / 690 V surge voltage resistance / rated value / 690 V operating voltage / at AC / rated value / 690 V operating requency / rated value / 690 V operating frequency / rated value / 690 V operating requency / rated value / 690 V operating frequency / rated value / 690 V operating frequency / rated value / 690 V operating frequency / rated value / 690 Hz Protection class IP / 600 Hz Protection class IP / 1, 3R, 4X, 12 1965 degree of protection NEMA rating / 1, 3R, 4X, 12 protection class IP / on the front 1965 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	design of handle	rotary operating mechanism, red/yellow	
number of poles number of poles / note number	type of the driving mechanism / motor drive	No	
number of poles / note mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles)	General technical data		
mechanical service life (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 resistance / rated value • at AC / rated value • minimum • maximum foo Hz Protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation power loss [W] / for rated value operational current / rated value operational current / rated value of at 40 °C / rated value operational current • at 40 °C / rated value of 0000 in the foot of the current / at AC / in operational current / rated value operational current • at 40 °C / rated value 25 A	number of poles	4	
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 • at AC / rated value operating frequency / rated value • minimum • maximum 50 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	number of poles / note	4	
at AC-23 A / at 690 V operating frequency / maximum degree of pollution 7	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 Frotection 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 50 Hz 690 V 690	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 ominimum ominimu	• at AC-23 A / at 690 V	6 000	
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 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 25 A operational current • at 40 °C / rated value 25 A	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 50 Hz • maximum 60 Hz Protection class protection class IP IP65 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 25 A operational current • at 40 °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 Frotection 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 6 kV 6 kV 6 kV 6 kV 690 V 690	Voltage		
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum Frotection 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 ● minimum ● maximum On 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 operational current ● at 40 °C / rated value 25 A operational current ● at 40 °C / rated value 25 A	surge voltage resistance / rated value	6 kV	
operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 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 • at 40 °C / rated value 25 A	operating voltage		
 minimum maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 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 	at AC / rated value	690 V	
● maximum 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 operational current ● at 40 °C / rated value 60 Hz IP65 1, 3R, 4X, 12 IP65 1.1 W 1.1 W 25 A	operating frequency / rated value		
protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 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 1P65 1, 3R, 4X, 12 25 A 25 A	• minimum	50 Hz	
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 IP65 1.1 W 1.1 W 25 A	• maximum	60 Hz	
degree of protection NEMA rating 1, 3R, 4X, 12 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, 3R, 4X, 12 1P65 1.1 W 1.1 W 25 A	Protection 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 1.1 W 25 A	protection class IP	IP65	
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 • at 40 °C / rated value 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	

at 50 °C / rated value	25 A
 at 50 °C / rated value at 55 °C / rated value 	25 A 25 A
at AC / rated value	25 A 25 A
	2071
Main circuit	
operational current	25 A
• 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	4 134/
• 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	
product extension / optional	
 motor drive 	
	No
voltage trigger	No
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum	No
number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts	No 2
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 2 4
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 2 4 0
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 2 4 0 3
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 hasp thickness / of the bracket locks	No 2 4 0 3
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 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse	No 2 4 0 3
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 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection	No 2 4 0 3 4 8 mm
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 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 2 4 0 3 4 8 mm
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 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 2 4 0 3 4 8 mm
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 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 2 4 0 3 4 8 mm 10 kA 6 kA
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 / maximum • at 440 V / for combination switch + gG fuse /	No 2 4 0 3 4 8 mm 10 kA 6 kA 3.5 kA
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 3 4 8 mm 10 kA 6 kA 3.5 kA
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 / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse / maximum permissible	No 2 4 0 3 4 8 mm 10 kA 6 kA 3.5 kA

maximum	
at 440 V / for combination switch + gG fuse /	4 kA2.s
maximum	
 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
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 stranded 	1x (2.516 mm²)
type of connectable conductor cross-sections / for	1x (2.5 to 16 mm²)
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	49 mm
depth type of device	380 mm fixed mounting
type of device fastening method	Built-in unit fixed-mounted version
fastening method	Dant in drift incommodified version
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



Confirmation









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=3LD3148-0TL53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3148-0TL53

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3148-0TL53

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications











