SIEMENS

Data sheet 3LD3148-1TK53



Load disconnector 3LD3, lu 25 A Main switch 3-pole 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 with auxiliary switch 10E + 1S

product brand name product designation design of the product design of the product design of the product display version / for switch position indicator manual operation type of switch design of the actuating element Short rotary knob color / of the actuating element design of handle type of the driving mechanism / motor drive Ceneral technical data number of poles number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / 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 degree of protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation operation sture / or rated value 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 red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Ceneral technical data number of poles / note mechanical service life (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 ominimum omini	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 the driving mechanism / motor drive Ro General technical data number of poles number of poles / note 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 for the front protection class IP degree of protection NEMA rating protection class IP degree of pole current operational current / rated value operational current / rated value operating state / per pole Current operational current / rated value 1 ON - 0 OFF Floor mounting with door coupling Fordary knob Floor mounting with door coupling Floor mounting with door coupling Fordary knob Floor mounting with door coupling Fordary knob Floor mounting with door coupling Fred Floor mounting with door coupling Fred Gend your operating mechanism, red/yellow No Carrent Short rotary knob Floor mounting with door coupling Bond rotary knob Floor mounting with door coupling 1 ON - 0 OFF Fred Floor mounting with door coupling Fred Gestary knob Floor operating mechanism, red/yellow No Carrent Short value Floor operating mechanism, red/yellow Fred Gestary operating mechanism, red/yellow Fred Totary operating mechanism, red/yellow Fred Gestary operating mechanism, red/yellow Floor obay operating mechanism, red/yellow Floor obay operating mechanism, red/	product designation	3LD Switch disconnector	
operation type of switch design of the actuating element color / of the actuating element red red red rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles number of poles number of poles 3 number of poles 3 number of poles 3 number of poles 100 000 electrical endurance (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 e at AC / rated value 690 V operating frequency / rated value 70 Hz 70	design of the product	EMERGENCY-STOP switch	
design of the actuating element 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 number of poles 3 number of poles 6 number of poles 7 number of poles 3 number of poles 7 number of poles 3 number of poles 7 number of poles 3 number of poles 7 n		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 nechanical 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 frequency / rated value • at AC / rated value • minimum • maximum Protection class IP degree of protection NEMA rating protection class IP / or the front power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current current red rotary operating mechanism, red/yellow No rotary operating mechanism, red/yellow No	type of switch	Floor mounting with door coupling	
design of handle type of the driving mechanism / motor drive Ro General technical data number of poles / note	design of the actuating element	Short rotary knob	
type of the driving mechanism / motor drive General technical data number of poles 3 3 100 1	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) / e at AC-23 A / at 690 V	design of handle	rotary operating mechanism, red/yellow	
number of poles 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 6 kV operating voltage esistance / 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 operations frequency / rated value 600 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 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 operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / 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 / rated value 25 A			
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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 690 V 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 / rated value 25 A	electrical endurance (switching cycles)		
degree of pollution 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 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 / rated value 25 A	• at AC-23 A / at 690 V	6 000	
insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum for 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 insulation voltage / rated value of the current / at AC / in hot operating state / per pole 25 A operational current / rated value 25 A	operating frequency / maximum	50 1/h	
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surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum foo 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 / rated value 25 A operational current	Voltage		
operating voltage	insulation voltage / rated value	690 V	
at AC / rated value operating frequency / rated value ominimum omaximum omaximum of 0 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	surge voltage resistance / rated value	6 kV	
operating frequency / rated value	operating voltage		
minimum maximum m	at AC / rated value	690 V	
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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 25 A operational current	• maximum	60 Hz	
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 25 A operational current	Protection class		
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power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current 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 25 A	protection class IP / on the front	IP65	
hot operating state / per pole Current operational current / rated value operational current	Dissipation		
operational current / rated value 25 A operational current		1.1 W	
operational current	Current		
	operational current / rated value	25 A	
a at 40 °C / rated value	operational current		
▼ at +0 C / Tateu value	 at 40 °C / rated value 	25 A	
• at 45 °C / rated value 25 A	• at 45 °C / rated value	25 A	

at 50 °C / rated value	25 Λ
 at 50 °C / rated value at 55 °C / rated value 	25 A 25 A
at AC / rated value	25 A
	207
Main circuit	
operational current	QE 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	
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	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
accessories product extension / optional motor drive	No No
accessories product extension / optional • motor drive • voltage trigger	No
accessories product extension / optional motor drive	
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
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	No 2 4
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 2
product extension / optional	No 2 4
product extension / optional	No 2 4 0
product extension / optional	No 2 4 0 3
product extension / optional	No 2 4 0 3
product extension / optional	No 2 4 0 3 4 8 mm
product extension / optional	No 2 4 0 3 4 8 mm
product extension / optional	No 2 4 0 3 4 8 mm
product extension / optional	No 2 4 0 3 4 8 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 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	No 2 4 0 3 4 8 mm 10 kA 6 kA 3.5 kA
product extension / optional	No 2 4 0 3 4 8 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 / maximum at 690 V / for combination switch + gG fuse /	No 2 4 0 3 4 8 mm 10 kA 6 kA 3.5 kA
product extension / optional	No 2 4 0 3 4 8 mm 10 kA 6 kA 3.5 kA
product extension / optional	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	. 10 = 10
 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	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	60 mm
height width	60 mm 47 mm
depth	380 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 	Yes
rail mounting	Yes
net weight	300 g
Environmental conditions	
ambient temperature / during operation	05.10
• minimum	-25 °C
maximum ambient temperature / during storage	55 °C
minimum	-25 °C
• maximum	55 °C
General Product Approval	Declaration of Conformity
Province of the second	











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=3LD3148-1TK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3148-1TK53

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3148-1TK53

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications









