## **SIEMENS**

Data sheet 3LD3148-0TK53



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

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   700 Mechanism / 700 Mech	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			
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 • 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 690 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	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	General technical data			
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 surge 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 / rated value 25 A	number of poles	3		
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  • 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 of the current / at AC / in hot operating state / per pole  Current  operational current / rated value  25 A  operational current	number of poles / note	3		
at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution 3  Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage at AC / rated value operating frequency / rated value 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 operational current / rated value operational current	mechanical service life (switching cycles) / typical	100 000		
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	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		
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 operational current / rated value operational current	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  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		
● 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	operating frequency / rated value			
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	• 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  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			
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	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  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	<ul> <li>at 40 °C / rated value</li> </ul>	25 A		
• at 45 °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 AC / rated value	25 A
Main circuit	
operational current	
<ul><li>at AC-21 / at 690 V / rated value</li></ul>	25 A
<ul><li>at AC-21 A / at 240 V / rated value</li></ul>	25 A
<ul><li>at AC-21 A / at 400 V / rated value</li></ul>	25 A
<ul><li>at AC-21 A / at 440 V / rated value</li></ul>	25 A
at AC-23 A / at 400 V / rated value	20 A
operating power	
<ul><li>at AC-23 A / at 240 V / rated value</li></ul>	4 kW
<ul><li>at AC-23 A / at 400 V / rated value</li></ul>	10 kW
<ul><li>at AC-23 A / at 440 V / rated value</li></ul>	9 kW
<ul><li>at AC-23 A / at 690 V / rated value</li></ul>	9 kW
<ul><li>at AC-3 / at 240 V / rated value</li></ul>	4 kW
<ul><li>at AC-3 / at 400 V / rated value</li></ul>	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	
<ul><li>main switch</li></ul>	Yes
<ul> <li>switch disconnector</li> </ul>	Yes
<ul> <li>EMERGENCY OFF switch</li> </ul>	Yes
<ul> <li>safety switch</li> </ul>	Yes
<ul> <li>maintenance/repair switch</li> </ul>	Yes
• maintenance/repair switch	res
Product details	Tes
<u> </u>	Can be locked in zero position
Product details	
Product details special product feature	Can be locked in zero position
Product details special product feature product feature / can be locked into OFF position	Can be locked in zero position
Product details special product feature product feature / can be locked into OFF position accessories	Can be locked in zero position
Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Can be locked in zero position Yes
Product details special product feature product feature / can be locked into OFF position accessories product extension / optional • motor drive	Can be locked in zero position Yes No
Product details  special product feature  product feature / can be locked into OFF position  accessories  product extension / optional  • motor drive  • voltage trigger  number of connectable NC contacts / for auxiliary contacts	Can be locked in zero position Yes  No No
Product details  special product feature  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	Can be locked in zero position Yes  No No 2
product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Can be locked in zero position Yes  No No 2
product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Can be locked in zero position Yes  No No 2 4 0
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 3
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 3
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 3
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 3 4 8 mm
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 3 4 8 mm
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 3 4 8 mm
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No 2 4 0 3 4 8 mm
product details  special product feature  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 / for combination switch + gG fuse / maximum  • at 440 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  • at 690 V / for combination switch + gG fuse /	Can be locked in zero position Yes  No No 2 4 0 3 4 8 mm
product details  special product feature  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	Can be locked in zero position Yes  No No No 2 4 0 3 4 8 mm  10 kA 6 kA 3.5 kA
product details special product feature product feature / can be locked into OFF position  accessories  product extension / optional	Can be locked in zero position Yes  No No No 2 4 0 3 4 8 mm  10 kA 6 kA 3.5 kA

maximum	4140		
<ul> <li>at 440 V / for combination switch + gG fuse / maximum</li> </ul>	4 kA2.s		
• at 690 V / for combination switch + gG fuse /	4 kA2.s		
maximum	T IV12.0		
design of the fuse link			
for short-circuit protection of the main circuit /	fuse gL/gG: 25 A		
required			
<ul> <li>for short-circuit protection of the auxiliary switch / required</li> </ul>	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 /	50 A		
rated value 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)		
<ul> <li>finely stranded / with core end processing</li> </ul>	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		
<ul> <li>finely stranded / with core end processing</li> </ul>	2x (0.75 1.5 mm²), 1x 2.5 mm²		
• stranded	2x (0.75 1.5 mm²), 1x 2.5 mm² 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	36 mm		
depth	380 mm		
type of device	fixed mounting		
fastening method	Built-in unit fixed-mounted version		
fastening method			
<ul> <li>4-hole front mounting</li> </ul>	No		
<ul> <li>front mounting with central attachment</li> </ul>	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=3LD3148-0TK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3148-0TK53

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

http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3LD3148-0TK53

**CAx-Online-Generator** 

http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications









