SIEMENS

Data sheet

3LD3248-0TL53



Load disconnector 3LD3, lu 32 A Main switch 3-pole + N Rated operating capacity for AC-23 A at 400V 11.5kW floor mounting Basic switch with door coupling Central hole mounting 22.5mm Rotary actuator red / yellow 66 x 66 mm

product brand name SENTRON product designation 3LD Switch disconnector design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 1ON - 0 OFF type of switch Floor mounting with door coupling design of the actuating element red color / of the actuating element red design of the actuating element red number of poles 4 number of poles / note 4 number of poles / note 6 e.tt AC-23 A / at 800 V 6000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage eit AC-21 failed value operating frequency / rated value 690 V operating frequency / rated value 690 V	Model		
design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch Floor mounting with door coupling design of the actuating element Short rotary knob color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Ceneral technical data number of poles 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 6 800 V surge voltage resistance / rated value 690 V operating voltage 61 KV operating voltage 690 V operating voltage 690 V operating voltage 690 V operating voltage 61 K2 operating voltage 60 Hz Protection class IP IP65 </td <td>product brand name</td> <td>SENTRON</td>	product brand name	SENTRON	
display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch Floor mounting with door coupling design of the actuating element Short rotary knob color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No Ceneral technical data number of poles / note number of poles / note 4 nechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 680 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 600 Lz operating frequency / rated value 690 V operating reduction REMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 degree of protection NEMA rating 1, 3R W Dissipation 32 A	product designation	3LD Switch disconnector	
operation Floor mounting with door coupling design of the actuating element Short rotary knob color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data Inumber of poles number of poles 4 number of poles / note 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6000 operating frequency / maximum 50 1/h degree of polution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / 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 rotection REMA rating 1, 3R, 4X, 12 protection class IP IP65 degree of polection NEMA rating	design of the product	EMERGENCY-STOP switch	
design of the actuating element Short rotary knob color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles number of poles / note 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating frequency / maximum 60 kV operating voltage 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 700 Hz <td></td> <td>1 ON - 0 OFF</td>		1 ON - 0 OFF	
color / of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data 1 number of poles / note 4 number of poles / note 4 number of poles / note 4 nechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 1 insulation voltage / rated value 690 V surge voltage resistance / 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 requency / rated value 690 V operating frequency / rated value 700 Hz operation class IP	type of switch	Floor mounting with door coupling	
design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles number of poles / note 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 6 000 operating frequency / maximum 60 1/h degree of pollution 3 Votage 680 V insulation votage / rated value 690 V operating frequency / maximum 60 1/h degree of pollution 3 Votage insulation votage / rated value insulation votage / rated value 690 V operating frequency / rated value 60 Hz <t< td=""><td>design of the actuating element</td><td>Short rotary knob</td></t<>	design of the actuating element	Short rotary knob	
type of the driving mechanism / motor drive No General technical data	color / of the actuating element	red	
General technical data 4 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 690 V insulation voltage / rated value 690 V operating voltage resistance / rated value 690 V operating voltage 680 V operating requency / rated value 690 V operating voltage 680 V operating requency / 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 V operating requency / rated value 690 V operating frequency / rated value 690 V operation class IP IP65 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Di	design of handle	rotary operating mechanism, red/yellow	
number of poles 4 number of poles / note 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V operating reguency / rated value 690 V operating reguency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP IP65 Dissipation IP65 Dissipation 1.8 W operational cu	type of the driving mechanism / motor drive	No	
number of poles / note 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) 6 • at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 64V operating frequency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 1, 3R, 4X, 12 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 power loss [W] / for rated value o	General technical data		
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• at AC-23 A / at 690 V 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 64 KV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 50 Hz • maximum 50 Hz by protection class IP IP65 Dissipation IP65 Dissipation IP65 Dissipation state / per pole 1.8 W current 32 A operational current / rated value 32 A operational current 32 A	mechanical service life (switching cycles) / typical	100 000	
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 690 V • at AC / rated value 690 V operating frequency / rated value 600 V operating frequency / rated value 600 V operating frequency / rated value 600 V operating frequency / rated value 50 Hz insuitinum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.8 W power loss [W] / for rated value of the current / at AC / in 1.8 W operational current / rated value 32 A operational current	electrical endurance (switching cycles)		
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Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V operating frequency / rated value 600 Hz Protection class 7 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 A operational current 32 A	operating frequency / maximum	50 1/h	
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 6 kV operating frequency / rated value 690 V operating frequency / rated value 50 Hz operational class 600 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 Dissipation 1.8 W operating state / per pole 32 A operational current / rated value 32 A operational current 32 A	degree of pollution	3	
surge voltage resistance / rated value 6 kV operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 60 Hz • minimum 50 Hz • maximum 60 Hz Protection class IP65 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 current 32 A operational current 32 A operational current 32 A	Voltage		
operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 60 Hz • maximum 60 Hz Protection class 10 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1265 Dissipation 1.8 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 A operational current 32 A operational current 32 A	insulation voltage / rated value	690 V	
• at AC / rated value 690 V operating frequency / rated value 50 Hz • minimum 60 Hz Protection class 60 Hz 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 32 A operational current / rated value 32 A	surge voltage resistance / rated value	6 kV	
operating frequency / rated value 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 1.8 W Current 32 A operational current / rated value 32 A	operating voltage		
• 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 1.8 W Current 32 A operational current 32 A	 at AC / rated value 	690 V	
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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 1.8 W Current operational current / rated value operational current 32 A operational current 32 A	Protection class		
protection class IP / on the front IP65 Dissipation	protection class IP	IP65	
Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Current operational current / rated value 32 A operational current at 40 °C / rated value 32 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 1.8 W Current 0perational current / rated value 32 A operational current 32 A operational current 32 A	protection class IP / on the front	IP65	
hot operating state / per pole Current operational current / rated value 32 A operational current 32 A operational current 32 A	Dissipation		
operational current / rated value 32 A operational current 32 A • at 40 °C / rated value 32 A	power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.8 W	
operational current • at 40 °C / rated value 32 A	Current		
• at 40 °C / rated value 32 A	operational current / rated value	32 A	
	operational current		
• at 45 °C / rated value 32 A	• at 40 °C / rated value	32 A	
	• at 45 °C / rated value	32 A	

e at 50 °C / rated value	22.4
• at 50 °C / rated value	32 A
• at 55 °C / rated value	32 A
at AC / rated value	32 A
Main circuit	
operational current	
 at AC-21 / at 690 V / rated value 	32 A
 at AC-21 A / at 240 V / rated value 	32 A
 at AC-21 A / at 400 V / rated value 	32 A
 at AC-21 A / at 440 V / rated value 	32 A
• at AC-23 A / at 400 V / rated value	22 A
operating power	
 at AC-23 A / at 240 V / rated value 	6 kW
 at AC-23 A / at 400 V / rated value 	12 kW
 at AC-23 A / at 440 V / rated value 	11.5 kW
 at AC-23 A / at 690 V / rated value 	12 kW
 at AC-3 / at 240 V / rated value 	5.5 kW
• at AC-3 / at 400 V / rated value	10 kW
• at AC-3 / at 690 V / rated value	9.5 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	2
/ attachable / maximum	
number of connectable NO contacts / for auxiliary contacts	4
/ attachable / maximum	
number of connectable CO contacts / for auxiliary contacts	0
/ attachable / maximum	2
number of bracket locks / maximum	3
hasp thickness / of the bracket locks	4 8 mm
Short circuit	
conditional short-circuit current / with line-side fuse protection	
at 440 V / by gG fuse / rated value	10 kA
• at 690 V / by gG fuse / rated value	6 kA
let-through current / with closed switch	
• at 240 V / for combination switch + gG fuse /	4.5 kA
maximum	
 at 440 V / for combination switch + gG fuse / 	4.5 kA
maximum	
• at 690 V / for combination switch + gG fuse /	5 kA
maximum permissible	
I2t value / with closed switch	
 at 240 V / for combination switch + gG fuse / 	9 kA2.s

maximum	
 at 440 V / for combination switch + gG fuse / 	9 kA2.s
maximum	
 at 690 V / for combination switch + gG fuse / maximum 	9 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 40 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	32 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	32 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	20
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	20
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 mm ²)
 finely stranded / with core end processing stranded 	$1x (2.516 \text{ mm}^2)$
type of connectable conductor cross-sections / for	1x (2.5 to 16 mm ²)
auxiliary contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
 finely stranded / with core end processing 	2x (0.75 1.5 mm ²), 1x 2.5 mm ²
type of electrical connection	2x (0.75 2.5 mm²), 1x 4 mm²
for main current circuit	box terminal
for auxiliary contacts	Box terminals
Mechanical Design	
height	60 mm
width	49 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 net weight	Yes 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









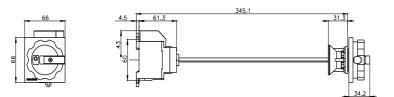
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other

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=3LD3248-0TL53 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3248-0TL53 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3248-0TL53 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications



Tuer/ Door/ Porte Puerta/ Porta/ Porta Boden/ Base/ Plancher/ Base/ Pavimento/ Fundo

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