SIEMENS

Data sheet

3LD3254-1TL53



Load disconnector 3LD3, lu 32 A Main switch 3-pole + N Rated operating capacity for AC-23 A at 400V 11.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotary actuator red / yellow 66 x 66 mm with auxiliary switch 10E + 1S

product brand name SENTRON product designation 3LD Switch disconnector design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 10N - 0 OFF lype of switch front mounted type of switch front mounted design of the actuating element red 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	Model	
design of the product EMERGENCY-STOP switch display version / for switch position indicator manual operation 10N - 0 OFF type of switch front mounted 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	product brand name	SENTRON
display version / for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted 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	product designation	3LD Switch disconnector
operation front mounted design of the actuating element red 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	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 insulation voltage / rated value operating frequency / maximum 680 V surge voltage resistance / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating rotage resistance / rated value 690 V operating rotage resistance / rated value 690 V operating frequency / rated value 100 Hz pro		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 Inumber of poles / note 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 insulation voltage / rated value 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 e at AC / rated value 690 V operating frequency / rated value 70 Hz operation class IP 1, 3R, 4X, 12 <tr< td=""><td>type of switch</td><td>front mounted</td></tr<>	type of switch	front mounted
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 680 V insulation voltage / rated value 690 V operating frequency / maximum 50 1/h degree of pollution 3 Voltage 680 V insulation voltage / rated value 690 V operating frequency / rated value 60 Hz operating frequency / rated value 60 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the	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 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 60 01/h degree of pollution 3 Voltage 690 V insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating requency / nation 6 kV operating requency / rated value 690 V surge voltage resistance / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 690 V operation class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.8 W <t< td=""><td>design of handle</td><td>rotary operating mechanism, red/yellow</td></t<>	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) 6 000 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 voltage 6 kV operating reguency / rated value 690 V operating reguency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating reguency / rated value 70 Hz protection class IP IP65 Dissipation IP65	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 trequency / maximum 600 V operating tottage resistance / rated value 690 V operating tottage resistance / rated value 690 V operating frequency / rated value 50 Hz edgree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.8 W 1.8 W	General technical data	
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 insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 6100 • at AC / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 600 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 operating state / per pole 32 A operational current / rated value 32 A	number of poles	4
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 surge voltage resistance / rated value 690 V operating voltage 6 kV operating voltage 6 kV operating trequency / rated value 690 V operating voltage 6 kV operating trequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 600 V operating frequency / rated value 50 Hz • maximum 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 operational current / rated value 32 A operational current / rated value 32 A operational current <td>number of poles / note</td> <td>4</td>	number of poles / note	4
• 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 690 V • at AC / rated value 690 V operating requency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP 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 operational current 32 A	mechanical service life (switching cycles) / typical	100 000
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 6 • at AC / rated value 690 V operating frequency / rated value 600 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 1.8 W current 32 A operational current / rated value 32 A	electrical endurance (switching cycles)	
degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 680 V • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP 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	• at AC-23 A / at 690 V	6 000
Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V operating voltage 690 V operating frequency / rated value 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 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 frequency / maximum	50 1/h
insulation voltage / rated value 690 V surge voltage resistance / rated value 6 kV operating voltage 690 V • at AC / rated value 690 V operating frequency / rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class 1, 3R, 4X, 12 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 / rated value 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 1, 3R, 4X, 12 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 18 W power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 32 A operational current 32 A	Voltage	
operating voltage 690 V operating frequency / rated value 690 V operating frequency / rated value 50 Hz ominimum 50 Hz omaximum 60 Hz Protection class 100 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation 100 Hz power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 1.8 W Operational current / rated value 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 1P65 Dissipation 1.8 W current 32 A operational current / rated value 32 A operational current 32 A	surge voltage resistance / rated value	6 kV
operating frequency / rated value 50 Hz • maximum 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	
• minimum50 Hz• maximum60 HzProtection classProtection class IPprotection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP / on the frontIP65DissipationIP65power loss [W] / for rated value of the current / at AC / in hot operating state / per pole1.8 WCurrent32 Aoperational current / rated value32 Aoperational current32 A	 at AC / rated value 	690 V
maximum 60 Hz Protection class protection class IP iP65 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 32 A operational current • at 40 °C / rated value 32 A	operating frequency / rated value	
Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 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	• minimum	50 Hz
protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation IP65 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 operational current 32 A	• maximum	60 Hz
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	_
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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 32 A operational current 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 0 operational current / rated value 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 • at 40 °C / rated value 32 A	Dissipation	
operational current / rated value 32 A operational current 32 A • at 40 °C / rated value 32 A		1.8 W
operational current 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

a at 50 °C / anto diversity	20.4
• 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 	40 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	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	
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 	1x (2.516 mm ²)
stranded 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
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	60 mm
depth	114 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	No
 4-hole front mounting front mounting with central attachment 	No Yes
 front mounting with central attachment rail mounting 	No
net weight	200 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









UK CA

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=3LD3254-1TL53 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3254-1TL53 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3254-1TL53 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications







