SIEMENS

Data sheet 3LD3154-1TL51



Load disconnector 3LD3, lu 25 A Main switch 3-pole + N Rated operating capacity at AC-23 A at 400V 9.0kW Front plate mounting Basic switch with Central hole mounting 22.5mm Toggle drive black 66x66 mm with auxiliary switch 1OE + 1S

product brand name product designation 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 black color / of the actuating element design of handle type of switch design of handle design of handle type of the driving mechanism / motor drive design of handle type of the driving mechanism / motor drive design of handle type of the driving mechanism / motor drive design of handle type of the driving mechanism / motor drive deneral service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / et at AC-23 A / at 680 V operating frequency / maximum degree of pollution Voltago insulation voltage / rated value operating voltage electrical endurance (switching cycles) electrical endurance (switching cycles) operating frequency / raximum degree of pollution Voltago insulation voltage / rated value operating requency / rated value operating requency / rated value operating frequency / rated value of the current / at AC / in hot 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 front mounted design of the actuating element color / of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism / motor drive rotary operating mechanism, black type of the driving mechanism / motor drive Rofeneral technical data number of poles / note numbe	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 design of handle type of the driving mechanism / motor drive lose of the driving mechanism, black lose of	product designation	3LD Switch disconnector		
operation type of switch design of the actuating element color / of the actuating element black design of handle type of the driving mechanism / motor drive Foerard technical data number of poles number of poles 4 number of poles 7 number of	design of the product	Main switch		
design of the actuating element black color / of the actuating element black classing of handle type of the driving mechanism / motor drive No General technical data number of poles 4 number of poles 4 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / typical 200 000 electrical endurance (switching cycles) / 6 000 operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V operating voltage resistance / rated value 690 V operating voltage 690 V operating frequency / rated value 690 V operating resistance / rated value 690 V operating to operating voltage 690 V operating to operating voltage 690 V operating to operating frequency / rated value 690 V operating state / fact of the current / at AC / in 1, 3R, 4X, 12 protection class IP / on the front IP65 Dissipation power loss [W] / for rated value of the current / at AC / in 1, 1, W operational current / rated value of the current / at AC / in 1, 1, W operational current / rated value 0	. ,	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 / 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 operating frequency / rated value • minimum 50 Hz 690 V operating frequency / rated value • minimum 50 Hz 60 Hz Protection class IP degree of protection NEMA rating protection class IP / or the front Dissipation 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 operational current • at 40 °C / rated value 25 A	type of switch	front mounted		
design of handle type of the driving mechanism / motor drive No Ceneral technical data number of poles number of poles / 4 number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V 6 000 operating frequency / maximum for insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value • at AC / rated value • at AC / rated value for operating frequency / rated value surge voltage resistance / rated value • at AC / rated value • at AC / rated value • minimum 50 Hz • maximum 50 Hz degree of protection class IP degree of protection NEMA rating protection class IP / on the front Dissipation Dissipation Operating state / per pole Current operational current / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value 25 A	design of the actuating element	Short rotary knob		
type of the driving mechanism / motor drive General technical data	color / of the actuating element	black		
Content Cont	design of handle	rotary operating mechanism, black		
number of poles number of poles / note 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 surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz emaximum 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 • at 40 °C / rated value 25 A operational current • at 40 °C / rated value 25 A	type of the driving mechanism / motor drive	No		
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electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 7	number of poles / note	4		
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operating frequency / rated value	operating voltage			
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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 55 °C / rated value	25 A
at AC / rated value	25 A
Main circuit	
operational current	
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 	No
safety switch	Yes
 maintenance/repair switch 	Yes
maintenance/repair switch Product details	Yes
<u> </u>	Yes 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 • motor drive	Can be locked in zero position Yes
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
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
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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	4 14 4 0 0		
 at 440 V / for combination switch + gG fuse / maximum 	4 kA2.s		
• at 690 V / for combination switch + gG fuse /	4 kA2.s		
maximum			
design of the fuse link			
 for short-circuit protection of the main circuit / 	fuse gL/gG: 25 A		
required			
 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	25 A		
60947-4-1 / rated value			
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	(<u>-</u>		
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		
stranded	2x (0.75 2.5 mm²), 1x 4 m	m²	
type of electrical connection			
• for main current circuit	box terminal		
for auxiliary contacts	Box terminals		
Mechanical Design			
height	60 mm		
width	60 mm		
depth the of device	114 mm		
type of device	fixed mounting		
fastening method	Built-in unit fixed-mounted ve	EISIUII	
fastening method	No		
4-hole front mountingfront mounting with central attachment	Yes		
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	













other

Miscellaneous

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3154-1TL51}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3154-1TL51

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3154-1TL51

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







