SIEMENS

Data sheet 3LD3154-0TL51

Load disconnector 3LD3, Iu 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

Model	
product brand name	SENTRON
product designation	3LD Switch disconnector
design of the product	Main switch
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	black
design of handle	rotary operating mechanism, black
type of the driving mechanism / motor drive	No
General technical data	
number of poles	4
number of poles / note	4
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	
● 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	1.1 W
Current	
operational current / rated value	25 A
operational current	
● 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	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	No
● 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 / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
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 / maximum	3.5 kA
● at 440 V / for combination switch + gG fuse / maximum	3.5 kA
● at 690 V / for combination switch + gG fuse / maximum permissible	4 kA
I2t value / with closed switch	
● at 240 V / for combination switch + gG fuse /	4 kA2.s

maximum	
● at 440 V / for combination switch + gG fuse / maximum	4 kA2.s
● 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 (2.5...16 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	
height	60 mm
width	49 mm
depth	114 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	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

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=3LD3154-0TL51
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3LD3154-0TL51
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3154-0TL51
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications