SIEMENS

Data sheet 3LD3154-1TK51



Load disconnector 3LD3, lu 25 A Main switch 3-pole 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 10E + 1S

Model		
product brand name	SENTRON	
product designation	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	3	
number of poles note	3	
mechanical service life (operating cycles) typical	100 000	
electrical endurance (operating 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	
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 • at AC-23 A at 400 V rated value • at AC-23 A at 440 V rated value • at AC-23 A at 469 V rated value • at AC-23 A at 690 V rated value • at AC-3 at 240 V rated value • at AC-3 at 240 V rated value • at AC-3 at 690 V rated value 7.5 kW Auxiliary circuit number of CO contacts for auxiliary contacts 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		
 at AC-23 A at 400 V rated value at AC-23 A at 440 V rated value at AC-23 A at 690 V rated value at AC-3 at 240 V rated value at AC-3 at 400 V rated value at AC-3 at 690 V rated value 7.5 kW Auxiliary circuit number of CO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts 1 operating voltage of auxiliary contacts at AC maximum 500 V 		
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number of NO contacts for auxiliary contacts 1 operating voltage of auxiliary contacts at AC maximum 500 V		
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		
number of connectable NO contacts for auxiliary contacts 4 attachable maximum		
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 maximum 4 kA2.s		
• 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 25 A rated value		
operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value		
active power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value		
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value		

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 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	47 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 Environment

<u>Confirmation</u> <u>Miscellaneous</u> <u>Environmental Confirmations</u>

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3LD3154-1TK51

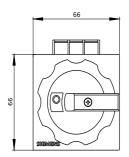
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3154-1TK51

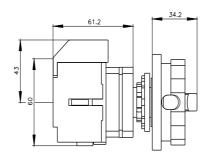
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3154-1TK51

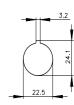
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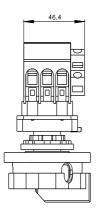
Tender specifications

http://www.siemens.com/specifications









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