SIEMENS

Data sheet 3LD3154-1TK53



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 red / yellow 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 toclor / of the actuating element design of he actuating element design of he actuating element red red red red red red red rotary operating mechanism, red/yellow type of the driving mechanism / motor drive red number of poles number of poles / note number of poles / note electrical endurance (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 Voltago insulation voltage / rated value operating requency / rated value • minimum • namimum for otary • namimum for otary for atted value • minimum • maximum for otary for atted value of the current / at AC / in hot operating state / per pole Current operational current / rated value • att 40 °C / rated value • atter • att 40 °C / rated value • atter • att 40 °C / rated value • atter • att 40 °C / rated value • atter • att 40 °C / rated value • atter • att 40 °C / rated value • atter • att 40 °C / rated value • atter • atter • att 40 °C / rated value • atter • atter • att 40 °C / rated value • atter • att	Model			
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 handle type of the driving mechanism / motor drive General technical data 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 • at AC / rated value • minimum • maximum 60 Hz 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 • at 4 °C / rated value operational current / rated value 25 A	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 ted design of handle type of shadle type of the driving mechanism / motor drive type of the driving mechanism / motor drive No General technical data number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum degree of pollution 3 at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 yoltage insulation voltage / rated value operating frequency / rated value operating frequency / rated value operating frequency / rated value • minimum • maximum 50 Hz degree of protection NEMA rating protection class IP / on 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	product designation	3LD Switch disconnector		
operation type of switch design of the actuating element color / of the actuating element red red design of handle type of the driving mechanism / motor drive No General technical data number of poles number of poles / note electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / et at AC-23 A f at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage at AC / rated value eminimum operating frequency / rated value eminimum foo Hz eminimum foo Hz eminimum foo Hz eminimum foo Hz errotection 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 operational current / rated value operating rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value	design of the product	EMERGENCY-STOP switch		
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color / of the actuating element design of handle type of the driving mechanism / motor drive 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 frequency / rated value • at AC / rated value • minimum 50 Hz • ob Hz • maximum 50 Hz • motoction class IP degree of protection NEMA rating protection class IP / on 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 • operational current / rated value operational current / rated value 25 A operational current • at 40 °C / rated value • 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 / note mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / 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 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V poreating frequency / rated value 690 V operating frequency / rated value	design of the actuating element	Short rotary knob		
type of the driving mechanism / motor drive General technical data number of poles number of poles / note mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching cycles) / 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 690 V surge voltage resistance / rated value 690 V operating frequency / material value 690 V operating voltage 690 V operating frequency / material value 690 V operating frequency / rated value 690 V operation class P 0 H 0 H degree of protection NEMA rating 1, 3R, 4X, 12 protection class P / on the front P65 Dissipation power loss W / for rated value of the current / at AC / in hot operating state / per pole Current 0 extract / rated value 25 A operational current / rated value 25 A operational current rated value 25 A	color / of the actuating element	red		
Anumber of poles 3 Inumber of poles / note / n	design of handle	rotary operating mechanism, red/yellow		
number of poles number of poles / note number of note number of poles / note number of note nu	type of the driving mechanism / motor drive	No		
number of poles / note mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum for the first of the first order of pollution voltage insulation voltage / rated value insulation voltage / rated value surge voltage resistance / rated value • at AC / rated value • at AC / rated value • minimum for Hz • maximum for 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	General technical data			
mechanical service life (switching cycles) / typical 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 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 700 Hz operation class IP 1965 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP / on the front 1965 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 25 A operational current / rated value 25 A	number of poles	3		
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operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value indigital frequency / rated value operation class IP protection class IP 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 operational current / rated value operational current	electrical endurance (switching cycles)			
degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value ominimum ominimu	• at AC-23 A / at 690 V	6 000		
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 Current operational current / rated value 25 A operational current • at 40 °C / rated value 25 A	operating frequency / maximum	50 1/h		
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 IP 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 operational current / rated value 25 A operational current • at 40 °C / rated value 25 A	degree of pollution	3		
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum	Voltage			
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz Frotection class 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 690 V 690	insulation voltage / rated value	690 V		
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operating frequency / rated value	operating voltage			
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protection class IP 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 operational current / rated value • at 40 °C / rated value IP65 1.1 W 1.1 W 25 A	maximum	60 Hz		
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 1, 3R, 4X, 12 IP65 1.1 W 1.1 W 25 A	Protection class			
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power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current operational current at 40 °C / rated value 25 A	protection class IP / on the front	IP65		
hot operating state / per pole Current operational current / rated value operational current operational current operational current 25 A 25 A	Dissipation			
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 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	Yes
• EMERGENOT OF T SWILLIN	163
• safety switch	Voc
safety switch maintenance/renair switch	Yes Yes
maintenance/repair switch	Yes Yes
maintenance/repair switch Product details	Yes
maintenance/repair switch Product details special product feature	Yes Can be locked in zero position
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position	Yes
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories	Yes Can be locked in zero position
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes Can be locked in zero position Yes
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional motor drive	Yes Can be locked in zero position Yes No
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger	Yes Can be locked in zero position Yes No No
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes Can be locked in zero position Yes No
maintenance/repair switch 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	Yes Can be locked in zero position Yes No No
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes Can be locked in zero position Yes No No 2
maintenance/repair switch 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	Yes Can be locked in zero position Yes No No 2
maintenance/repair switch 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	Can be locked in zero position Yes No No O O
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes Can be locked in zero position Yes No No 0 3
maintenance/repair switch 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 hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse	Yes Can be locked in zero position Yes No No 0 3
maintenance/repair switch 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	Yes Can be locked in zero position Yes No No 0 3
maintenance/repair switch 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	Yes Can be locked in zero position Yes No No 2 4 0 3 4 8 mm
maintenance/repair switch 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 / by gG fuse / rated value	Yes Can be locked in zero position Yes No No 2 4 0 3 4 8 mm
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes Can be locked in zero position Yes No No 2 4 0 3 4 8 mm
maintenance/repair switch 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
maintenance/repair switch 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
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes Can be locked in zero position Yes No No No 2 4 0 3 4 8 mm 10 kA 6 kA 3.5 kA
maintenance/repair switch Product details special product feature product feature / can be locked into OFF position accessories product extension / optional	Yes 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	41.40		
 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 /	50 A		
rated value			
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	2v (0.75 2.5 mm²) 1v 4 m	nm²	
finely stranded / with core end processing	2x (0.75 2.5 mm²), 1x 4 mm² 2x (0.75 1.5 mm²), 1x 2.5 mm²		
stranded stranded	2x (0.75 1.5 mm²), 1x 2.5 mm² 2x (0.75 2.5 mm²), 1x 4 mm²		
type of electrical connection	2x (0.70 2.0 mm), 1x 1 m		
• 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	05.00		
• 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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD3154-1TK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD3154-1TK53

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3154-1TK53

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications







