SIEMENS

Data sheet 3LD2154-1TL53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 4-pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, front-mounted, rotary operating mechanism, Red / yellow, central mounting 22.5 mm of the handle

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 design of he actuating element red design of he actuating element design of handle type of switch red design of handle type of the driving mechanism / motor drive Roperation flowing mechanism / motor drive Roperat Lebrohized data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / 6 000 operating frequency / maximum degree of pollution Voltago insulation voltage / rated value entity of the driving mechanism, red/yellow type of the driving mechanism, red/yellow type of total size ### ACC-23 A / at 690 V GOOO ### ACC-23 A / at 690 V ### OF A / ### OF A / ### OF A / ### OF A / OF A / OF A / OF A / ### OF A / ### OF A / ### OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / OF A / ### OF A / OF A / OF A / ### OF A / OF A / OF A / ### OF A / OF A / OF A / ### OF A / OF A / OF A / ### OF A / OF A / OF A / ### OF A / O	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 red design of handle rotary operating mechanism, red/yellow type of the driving mechanism / motor drive Ceneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / t	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 tred design of handle type of the driving mechanism / motor drive type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum for poles at AC-23 A / at 690 V operating frequency / maximum for poles insulation voltage / rated value operating voltage resistance / rated value operating frequency / rated value operational class IP / on the front Dissipation power loss [M] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value	product designation	3LD Switch disconnector	
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color / of the actuating element design of handle type of the driving mechanism / motor drive No Ceneral technical data number of poles size of switch disconnector mechanical service life (switching cycles) / typical electrical endurance (switch	type of switch	front mounted	
design of handle type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector 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 • at AC / rated value • at AC / rated value operating frequency / rated value • at AC / rated value operating frequency / rated value • by the company of the company of the current / at AC / in hot operating state / per pole Current operation at AC / rated value of the current / at AC / in hot operating state / per pole Current operation at AC / rated value 25 A operational current / rated value 25 A operational current / 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	red	
A Size of switch disconnector 2 2 2 2 2 2 2 2 2	design of handle	rotary operating mechanism, red/yellow	
number of poles size of switch disconnector 2 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 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 600 Hz Protection class 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 / rated value 25 A operational current • at 40 °C / rated value	type of the driving mechanism / motor drive	No	
size of switch disconnector 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 requency / rated value 690 V operating frequency / 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 / rated value 25 A operational current • at 40 °C / rated value 25 A	General technical data		
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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 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 25 A 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	
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• at AC / rated value operating frequency / rated value • minimum • maximum 60 Hz Protection 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 25 A operational current • at 40 °C / rated value 25 A	surge voltage resistance / rated value	6 kV	
operating frequency / rated value • minimum • maximum 60 Hz Protection class 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 • at 40 °C / rated value 25 A	operating voltage		
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degree of protection NEMA rating 1, 3R, 4X, 12 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 operational current operational current operational current 25 A	Protection class		
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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 Λ
• at 55 °C / rated value	25 A 25 A
at SS *C / rated value at AC / rated value	25 A 25 A
Main circuit	25 A
operational current	25 4
• at AC-21 / at 690 V / rated value	25 A 25 A
at AC-21 A / at 240 V / rated value at AC-21 A / at 400 V / rated value at AC-21 A / at 400 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 at AC-23 A / at 400 V / rated value 	20 A
operating power	20 A
• at AC-23 A / at 240 V / rated value	5 kW
• at AC-23 A / at 240 V / rated value	10 kW
at AC-23 A / at 440 V / rated value at AC-23 A / at 440 V / rated value	9.5 kW
at AC-23 A / at 690 V / rated value at AC-23 A / at 690 V / rated value	10 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 400 V / rated value	7.5 kW
Auxiliary circuit	
number of CO contacts / for auxiliary contacts	0
number of CO contacts / for auxiliary contacts number of NC contacts / for auxiliary contacts	0
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	Yes
safety switch	Yes
maintenance/repair switch	Yes
Product details	165
Floudel details	
	Voc
product feature / can be locked into OFF position	Yes
product feature / can be locked into OFF position accessories	Yes
product feature / can be locked into OFF position accessories product extension / optional	
product feature / can be locked into OFF position accessories product extension / optional • motor drive	No
product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger	No No
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	No
product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts	No No
product feature / can be locked into OFF position accessories product extension / optional	No No 1
product feature / can be locked into OFF position accessories product extension / optional	No No 1
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1
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	No No 1 1 0
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0 3 4 8 mm
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0 3 4 8 mm
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0 3 4 8 mm
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0 3 4 8 mm
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0 3 4 8 mm 50 kA 3.5 kA
product feature / can be locked into OFF position accessories product extension / optional	No No 1 1 0 3 4 8 mm 50 kA 3.5 kA 4 kA

I2t value / with closed switch / 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	8
• minimum	14
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (1,516mm²)
 finely stranded / with core end processing 	1x (1,510mm²)
stranded	1x (1,516mm²)
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	connection terminals
Mechanical Design	
height	84 mm
width	67 mm
depth	116.5 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	229 g
Environmental conditions	
ambient temperature / during operation	05.00
• minimum	-25 °C
maximum ambient temperature / during storage	55 °C
ambient temperature / during storage	25 °C
minimum maximum	-25 °C 55 °C
	33 0
General Product Approval	





Confirmation





Miscellaneous

General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate





Marine / Shipping

other



Environmental Confirmations **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=3LD2154-1TL53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2154-1TL53

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2154-1TL53

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications











