SIEMENS

Data sheet

3LD2154-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- 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 SENTRON product designation Switch disconnector design of the product EMERGENCY-STOP switch display version for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element Front mounted color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Concort technical data	Model	
design of the product EMERGENCY-STOP switch display version for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element Shoth rotary knob color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No Genoral technical data	product brand name	SENTRON
display version for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No General technical data number of poles size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value operating requency rated value 690 V operating requency rated value 690 V operating voltage 64 kV operating requency rated value 690 V operating frequency rated value 60 Hz operating frequency rated value 60 Hz	product designation	Switch disconnector
type of switch front mounted design of the actuating element Short rotary knob color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No General technical data number of poles number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 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 operating voltage e at AC rated value 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W op	design of the product	EMERGENCY-STOP switch
design of the actuating element Fred color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No General technical data	display version for switch position indicator manual operation	1 ON - 0 OFF
color of the actuating element red design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No General technical data number of poles number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 60 1/h degree of pollution 3 Voltage insulation voltage rated value insulation voltage rated value 690 V operating frequency maximum 60 V operating frequency maximum 60 V operating frequency maximum 60 V operating voltage resistance rated value 690 V operating voltage 6 kV operating frequency rated value 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W poverating state p	type of switch	front mounted
design of handle rotary operating mechanism, red/yellow type of the driving mechanism motor drive No General technical data	design of the actuating element	Short rotary knob
type of the driving mechanism motor drive No General tachnical data	color of the actuating element	red
General technical data number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage resistance rated value 690 V surge voltage resistance rated value 690 V operating frequency maximum 60 kV operating voltage 6 kV operating trequency rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 1.3 R, 4X, 12	design of handle	rotary operating mechanism, red/yellow
number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 • at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage	type of the driving mechanism motor drive	No
size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency maximum 50 Hz operating frequency rated value 690 V operation class IP 12 protection class IP 1965 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W operating state per pole 1.1 W	General technical data	
mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V operating voltage 6 kV operating requency maximum 690 V surge voltage resistance rated value 690 V operating voltage 690 V • at AC rated value 690 V operating frequency rated value 690 V • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W	number of poles	3
electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V operating yottage resistance rated value 690 V operating voltage resistance rated value 690 V operating voltage 690 V • at AC rated value 690 V operating requency rated value 690 V operating frequency rated value 690 V operation class IP IP65 Dissipation 1.1 W operationg state per pole 1.1 W	size of switch disconnector	2
• at AC-23 A at 990 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 90 V • at AC rated value 690 V operating frequency rated value 6 90 V operating frequency rated value 1 , 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W porer loss [W] for rated value of the current at AC in hot operating state per pole	mechanical service life (operating cycles) typical	100 000
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 6 kV operating frequency rated value 690 V operating requency rated value 690 V operating frequency rated value 1.1 X protection class IP 1.1 W protection class IP on the front 1.1 W operating state per pole 1.1 W	electrical endurance (operating cycles)	
degree of pollution 3 Voltage insulation voltage rated value 690 V insulation voltage resistance rated value 6 kV operating voltage 6 kV operating voltage 690 V operating voltage 690 V operating voltage 690 V operating frequency rated value 60 Hz Protection class Protection class IP protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation power loss IW] for rated value of the current at AC in hot operating state per pole Main circuit operational current	• at AC-23 A at 690 V	6 000
Voltage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 kV • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class 1 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W operational current 0	operating frequency maximum	50 1/h
insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 kV • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	degree of pollution	3
surge voltage resistance rated value 6 kV operating voltage 690 V operating frequency rated value 690 V operating frequency rated value 60 Hz • minimum 50 Hz • maximum 60 Hz Protection class 10 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.1 W power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W	Voltage	
operating voltage 690 V • at AC rated value 690 V operating frequency rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class 100 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 11 W operating state per pole 1.1 W operating state per pole 1.1 W	insulation voltage rated value	690 V
• at AC rated value 690 V operating frequency rated value 50 Hz • 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 IP65 Dissipation I11 W operating state per pole 1.1 W operating state per pole IP65	surge voltage resistance rated value	6 kV
operating frequency rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W operating current IP65	operating voltage	
• minimum50 Hz• maximum60 HzProtection classIP65protection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65power loss [W] for rated value of the current at AC in hot operating state per pole1.1 WMain circuitoperational current	 at AC rated value 	690 V
• maximum 60 Hz Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	operating frequency rated value	
Protection class protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	• minimum	50 Hz
protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	• maximum	60 Hz
degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation	Protection class	
protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current	protection class IP	IP65
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current	degree of protection NEMA rating	1, 3R, 4X, 12
power loss [W] for rated value of the current at AC in hot operating state per pole 1.1 W Main circuit operational current 1.1 W	protection class IP on the front	IP65
operating state per pole Main circuit operational current	Dissipation	
operational current		1.1 W
	Main circuit	
• at AC-21 at 690 V rated value 25 A	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 240 V rated value	25 A
• 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 25 A	• at AC-21 A at 440 V rated value	25 A
at AC-23 A at 400 V rated value 20 A	• at AC-23 A at 400 V rated value	20 A

operating power	
operating power • at AC-23 A at 240 V rated value	5 kW
at AC-23 A at 400 V rated value	10 kW
at AC-23 A at 440 V rated value	9.5 kW
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 690 V rated value	7.5 kW
Auxiliary circuit	
number of CO contacts for auxiliary contacts	0
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	
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	2
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 690 V by gG fuse rated value	50 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 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 (1,516mm ²)
 finely stranded with core end processing 	1x (1,510mm ²)
stranded type of connectable conductor cross-sections for auxiliary	1x (1,516mm²)
contacts	$2 \times (0.75 - 2.5 \text{ mm}^2)$ 1 × 4 mm ²
 solid finally stranded with core and processing 	2x (0.75 2.5 mm²), 1x 4 mm² 2x (0.75 1.5 mm²), 1x 2.5 mm²
 finely stranded with core end processing stranded 	2x (0.75 2.5 mm ²), 1x 4 mm ²
type of electrical connection	2X (0.75 2.5 mm ⁻), 1X 4 mm ⁻
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	208 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	
	Miscellaneous UL VDE
General Product Approval Declaration of Conformity	Test Certificates Marine / Shipping
	Special Test Certific- ate Register
Marine / Shipping other	Environment
Miscellaneous Confirmation	on Environmental Con- firmations
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/catalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2154-0TK53

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2154-0TK53

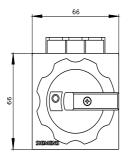
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2154-0TK53

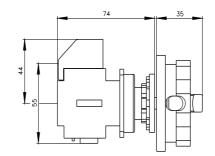
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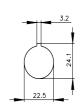
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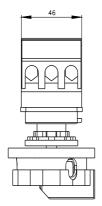
Tender specifications

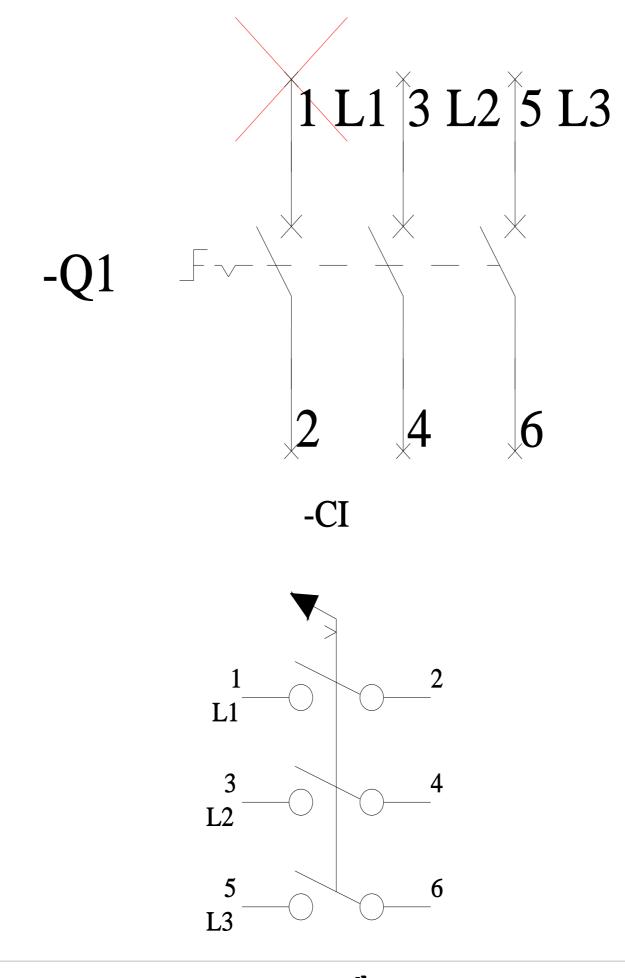
http://www.siemens.com/specifications











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