SIEMENS

Data sheet 3LD2054-0TK53



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, lu: 16 A, operating power / at AC-23 A 400 V: 7.5 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 type of switch type of switch design of handle type of the driving mechanism / motor drive 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 (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 operating requency / rated value • minimum • at AC / rated value • minimum • maximum 50 Hz errotection class IP degree of protection NEMA rating protection class IP / or treat value of the current / at AC / in hot operating state / per pole	Model		
design of the product display version / for switch position indicator manual operation type of switch front mounted Short rotary knob color / of the actuating element color / of the actuating element design of the actuating element type of the driving mechanism / motor drive Rear actual data type of the driving mechanism / motor drive Rear actual data number of poles size of switch disconnector 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 Voltage insulation voltage / rated value surge voltage resistance / rated value operating frequency / rated value operating frequency / rated value in minimum 50 Hz e maximum 50 Hz foo Hz Protection class IP degree of protection NEMA rating protection class IP / or the front Dissipation Dissipation power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in	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 design of handle type of the driving mechanism / motor drive red rotary operating mechanism, red/yellow 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) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 Yottage insulation voltage / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • at / rated value • minimum • anximum Foo Hz degree of 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 power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in power loss [W] / for rated value of the current / at AC / in	product designation	3LD Switch disconnector	
type of switch design of the actuating element color / of the actuating element red design of handle 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) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value • at AC / rated value • at AC / rated value • minimum 50 Hz • maximum 60 Hz	design of the product	EMERGENCY-STOP switch	
design of the actuating element color / of the actuating element 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 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value operating frequency / rated value operating frequency / rated value operating frequency / rated value • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz end 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 not operating state / per pole		1 ON - 0 OFF	
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 (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage • at AC / rated value operating voltage • at AC / rated value operating frequency / rated value operating frequency / rated value operating voltage • at AC / rated value operating voltage on the front of 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	type of switch	front mounted	
design of handle type of the driving mechanism / motor drive No General technical data number of poles	design of the actuating element	Short rotary knob	
type of the driving mechanism / motor drive 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 70 totage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value • minimum for Hz • maximum for 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	color / of the actuating element	red	
General technical data number of poles 3 size of switch disconnector 1 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching 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 6 kV operating voltage at AC / rated value 690 V operating frequency / rated value 690 V operating frequency / rated value 60 Hz Protection class IP e maximum 50 Hz 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 0.5 W	design of handle	rotary operating mechanism, red/yellow	
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 for the degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value operating frequency / rated value operating frequency / rated value • minimum omaximum 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	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 operating frequency / maximum foo 1/h degree of pollution surge voltage / rated value operating voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value operat	General technical data		
mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution 70	number of poles	3	
electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value • at AC / rated value • minimum • maximum 60 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	size of switch disconnector	1	
at AC-23 A / at 690 V 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 indicate the frequency / rated value of the current / at AC / in hot operating state / per pole indicate the frequency / rated value of the current / at AC / in hot operating state / per pole indicate the frequency / rated value of the current / at AC / in hot operating state / per pole	mechanical service life (switching cycles) / typical	100 000	
operating frequency / maximum degree of pollution 7	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 • minimum • maximum 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	• 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	operating frequency / maximum	50 1/h	
insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 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	degree of pollution	3	
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated v	Voltage		
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum foo 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 690 V FOUND INTERPREDICT SOLUTION INTERPREDICT SOLU	insulation voltage / rated value	690 V	
at AC / rated value operating frequency / rated value minimum maximum for Hz on	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 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 50 Hz 10	operating voltage		
minimum	at AC / rated value	690 V	
● 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	operating frequency / rated value		
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	• minimum	50 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 IP65	maximum	60 Hz	
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 1, 3R, 4X, 12	Protection class		
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 0.5 W	protection class IP	IP65	
Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole 0.5 W	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 0.5 W	protection class IP / on the front	IP65	
hot operating state / per pole	Dissipation		
Current		0.5 W	
	Current		
operational current / rated value 16 A	operational current / rated value	16 A	
operational current	operational current		
• at 40 °C / rated value 16 A	 at 40 °C / rated value 	16 A	
• at 45 °C / rated value 16 A	• at 45 °C / rated value	16 A	

a at E0 °C / rated value	16 A
• at 50 °C / rated value	16 A
at 55 °C / rated value at AC / rated value	16 A
at AC / rated value	16 A
Main circuit	
operational current	
• at AC-21 / at 690 V / rated value	16 A
• at AC-21 A / at 240 V / rated value	16 A
at AC-21 A / at 400 V / rated value	16 A
• at AC-21 A / at 440 V / rated value	16 A
at AC-23 A / at 400 V / rated value	16 A
operating power	
• at AC-23 A / at 240 V / rated value	4 kW
• at AC-23 A / at 400 V / rated value	8 kW
• at AC-23 A / at 440 V / rated value	7.5 kW
• at AC-23 A / at 690 V / rated value	8 kW
• at AC-3 / at 240 V / rated value	3 kW
• at AC-3 / at 400 V / rated value	6 kW
at AC-3 / at 690 V / rated value Applications alreads	5.5 kW
Auxiliary circuit	0
number of CO contacts / for auxiliary contacts	0
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts 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
EINIEROENCE OFF SWICH	1 65
• safety switch	Vas
safety switchmaintenance/repair switch	Yes Yes
maintenance/repair switch	Yes Yes
maintenance/repair switch Product details	Yes
maintenance/repair switch Product details product feature / can be locked into OFF position	
maintenance/repair switch Product details product feature / can be locked into OFF position accessories	Yes
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes Yes
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive	Yes Yes No
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive voltage trigger	Yes Yes No No
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional motor drive	Yes Yes No
maintenance/repair switch Product details 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 Yes No No
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes Yes No No 2
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 2
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 2 0
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 2 0 3
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 2 0 3
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 2 0 3
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No No 2 2 0 3 4 8 mm
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 2 0 3 4 8 mm
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No No 2 2 0 3 4 8 mm
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No No 2 2 0 3 4 8 mm
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No No 2 2 0 3 4 8 mm 50 kA 3 kA
maintenance/repair switch Product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No No 2 2 0 3 4 8 mm 50 kA 3 kA 3 kA

I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	3 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 20 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
operational current / of upstream fuse / rated value	20 A
according UL	
operational current / at AC / according to UL 508/UL 60947-4-1 / rated value	16 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	7.5
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	10
short-time with stand 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	10
• minimum	18
type of connectable conductor cross-sections / for copper conductor	
• solid	1x (16mm²)
 finely stranded / with core end processing 	1x (14mm²)
stranded	1x (16mm²)
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	209 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	
.,	



Confirmation







<u>Miscellaneous</u>

General Product Approval

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate





other

Miscellaneous

Environmental Confirmations

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=3LD2054-0TK53

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-0TK53

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2054-0TK53

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications











