SIEMENS

Data sheet 3LD3054-1TK51



Load disconnector 3LD3, lu 16 A Main switch 3-pole Rated operating capacity at AC-23 A at 400V 7.5kW Front plate mounting Basic switch with Central hole mounting 22.5mm Rotating drive black 66 x 66 mm with auxiliary switch 1OE + 1S

product brand name product designation Switch disconnector design of the product Main switch display version for switch position indicator manual operation type of switch design of the actuating element Short rotary knob color of the actuating element black design of the actuating element black design of the actuating element color of the actuating element black design of handle violate product of the actuating element color of the actuating element black design of handle violate product of the actuating element design of handle violate product of the actuating element design of handle violate product of the actuating element design of handle violate product of the actuating element design of handle violate product of the actuating element design of handle violate product of the actuating element design of handle violate of the actuating element design of handle violate of politic of the actuating mechanism, black violate of politic of the actuating mechanism, black violate of politic of the actuating cycles of the actuation of the actuating cycles of the actuating cycles of the actuating cycles of the actuating cycles of the actuation of the actuating cycles of the actuating cycles of the actuation of the actuating cycles of the actuating cycles of the actuation of the actuati	Model		
design of the product display version for switch position indicator manual operation 1 ON - 0 OFF type of switch design of the actuating element color of the actuating element black design of the actuating element black design of handle rotary operating mechanism, black type of the driving mechanism motor drive No General technical cata number of poles note animate of poles note mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum 50 1/h degree of pollution 3 voltage insulation voltage resistance rated value • minimum • At Cated value • minimum • maximum • maximum • maximum • maximum • maximum • maximum • motor of poles pover loss IP degree of protection NEMA rating protection class IP operating state per pole Main circuit Posspation Past AC-21 at 400 V rated value • at AC-21 at 400 V rated value • at AC-21 at 440 V rated value	product brand name	SENTRON	
display version for switch position indicator manual operation type of switch front mounted design of the actuating element black design of the actuating element black design of handle type of the driving mechanism motor drive No General technical data number of poles number of poles note section and activating evices by typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) at AC-23 A at 590 V operating frequency maximum for poles insulation voltage rated value operating voltage at AC acted value operating voltage at AC acted value operating frequency rated value oprotection class Protection class IP degree of protection NEMA rating protection class IP on the front IP65 Dissipation power loss [V] for rated value of the current at AC in hot operating state per pole Main circuit operational current at AC-21 A at 240 V rated value at AC-21 A at 240 V rated value at AC-21 A at 240 V rated value at AC-21 A at 440 V rated value	product designation	Switch disconnector	
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 Ceneral technical data Number of poles 3 number of poles 3 number of poles 3 number of poles 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) v 6 000 operating frequency maximum 50 1/h degree of pollution 3 voltage acted value 690 V surge voltage resistance rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 Hz Protection class IP 65 degree of protection class IP 1965 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front 1965 Dissipation operating state per pole Main circuit operating state per pole Main circuit 0 at AC-21 at 690 V rated value 16 A at AC-21 at 440 V rated value 16 A at AC-21 A at 404 V rated value 16 A AC-21 A at 404 V rat	design of the product	Main switch	
design of the actuating element black color of the actuating element black design of handle rotary operating mechanism, black black type of the driving mechanism motor drive No General technical data number of poles 3 number of poles 3 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 4	display version for switch position indicator manual operation	1 ON - 0 OFF	
color of the actuating element design of handle rotary operating mechanism, black type of the driving mechanism motor drive No Seneral technical data number of poles and seneral design of handle received and seneral design of handle seneral desig	type of switch	front mounted	
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 13 number of poles 14 number of poles 15 number of poles 15 number of poles 16 number of poles 17 number of poles 17 number of poles 18 number	design of the actuating element	Short rotary knob	
type of the driving mechanism motor drive General technical data number of poles mechanical service life (operating cycles) typical electrical endurance (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 560 V operating frequency maximum degree of pollution 3 Voltage insulation voltage rated value operating voltage resistance rated value • at AC rated value operating frequency rated value • minimum • maximum 50 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 slate per pole Main circuit operating slate per pole Main circuit • at AC-21 A at 400 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V vrated value	color of the actuating element		
General technical data number of poles number of poles note mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum degree of poliution 3 Voltage insulation voltage rated value operating voltage resistance rated value • at AC rated value • minimum • maximum foo Hz Protection class IP protection class IP on the front Dissipation power loss IP on the front Dissipation power loss IP or tated value of the current at AC in hot operating state per pole Main circuit operating state per pole Main circuit • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value	design of handle	rotary operating mechanism, black	
number of poles note 3 number of poles note 3 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 200 000 electrical endurance (operating cycles) 4 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 690 V operating frequency rated value 600 kZ Protection class IP rotection 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 Main circuit operating state per pole Main circuit operating state per pole 4 at AC-21 at 690 V rated value 16 A o at AC-21 A at 240 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A o at AC-21 A at 440 V rated value 16 A	type of the driving mechanism motor drive	No	
number of poles note mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-21 at 690 V operating frequency maximum degree of pollution 70 Voltage insulation voltage rated value • at AC rated value • at AC rated value • minimum • maximum Protection class IP degree of protection NEMA rating power loss [IP] on the front Dissipation Dissipation wat AC-21 at 690 V rated value • at AC-21 at at 400 V rated value • at AC-21 A at 440 V rated value	General technical data		
mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum degree of pollution 7 ottage insulation voltage rated value operating voltage • at AC rated value • minimum • maximum Protection 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 Main circuit operational current • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	number of poles	3	
electrical endurance (operating 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 690 V operating voltage • at AC rated value 690 V operating frequency rated value 690 V operating frequency rated value • minimum 50 Hz Protection class protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP or the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value	number of poles note	3	
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 6 kV operating voltage at AC rated value 690 V operating frequency rated value 600 Hz Protection class protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front 1P65 Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 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-21 A at 440 V rated value 16 A	mechanical service life (operating cycles) typical	100 000	
operating frequency maximum 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 • minimum 50 Hz • maximum 60 Hz Protection class IP degree of protection NEMA rating protection class IP IP65 degree of protection NEMA rating 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 • at AC-21 at 690 V rated value • at AC-21 A at 440 V rated value	electrical endurance (operating cycles)		
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 • minimum 50 Hz • 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	• 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 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 Main circuit operational current • at AC-21 at 240 V rated value 16 A • at AC-21 A at 440 V vrated value 16 A • at AC-21 A at 440 V vrated value 16 A • at AC-21 A at 440 V vrated value 16 A • at AC-21 A at 440 V vrated value 16 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 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	degree of pollution	3	
surge voltage resistance rated value operating voltage • at AC rated value operating frequency rated value • minimum • maximum 50 Hz • 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value	Voltage		
operating voltage	insulation voltage rated value	690 V	
at AC rated value operating frequency rated value ominimum for Hz omaximum for Hz	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 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	operating voltage		
minimum maximum maxim	at AC rated value	690 V	
● maximum Frotection class protection class IP 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 Main circuit operational current ● at AC-21 at 690 V rated value ● at AC-21 A at 240 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ● at AC-21 A at 440 V rated value ■ 16 A	operating frequency rated value		
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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	• 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	• 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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	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 • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	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 Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	protection class IP on the front	IP65	
operating state per pole Main circuit operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	Dissipation		
operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value • at AC-21 A at 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value		0.5 W	
 at AC-21 at 690 V rated value at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 16 A 16 A 	Main circuit		
 at AC-21 A at 240 V rated value at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 16 A 16 A 	operational current		
 at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 16 A 	• at AC-21 at 690 V rated value	16 A	
at AC-21 A at 440 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-23 A at 400 V rated value	• 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 	3 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	5.5 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	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	2
number of connectable NO contacts for auxiliary contacts attachable maximum	4
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 At the such augment with placed avrite.	6 kA
let-through current with closed switch	214
at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gC fuse maximum	3 kA
at 440 V for combination switch + gG fuse maximum at 600 V for combination switch + gC fuse maximum	3 kA
at 690 V for combination switch + gG fuse maximum permissible Other land with placed switch	3 kA
12t value with closed switch	251422
at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum	2.5 kA2.s
at 440 V for combination switch + gG fuse maximum at 600 V for combination switch + gG fuse maximum	2.5 kA2.s
at 690 V for combination switch + gG fuse maximum	3 kA2.s
design of the fuse link	fuer at /aC: 20 A
for short-circuit protection of the main circuit required for short circuit protection of the auxiliary quiteb 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 according UL	16 A
	16 /
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 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>Miscellaneous</u> <u>Confirmation</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=3LD3054-1TK51

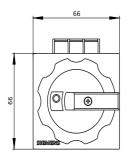
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3LD3054-1TK51

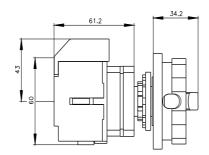
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD3054-1TK51

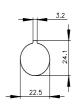
CAx-Online-Generator

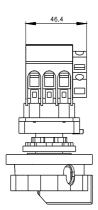
Tender specifications

http://www.siemens.com/specifications









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