SIEMENS

Data sheet

3LD2054-0TK51



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, rotary operating mechanism, black, central mounting 22.5 mm of the handle

Model	
product brand name	SENTRON
product designation	3LD Switch disconnector
design of the product	Main switch
display version for switch position indicator manual operation	1 ON - 0 OFF
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
General technical data	
number of poles	3
size of switch disconnector	1
mechanical service life (operating cycles) typical	100 000
electrical endurance (operating 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	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	0.5 W
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

Uperating Jone IN AC23 A #400 V rated value IN AC23 A #400 V rated value<	aparating power	
• At AC-23 A # 400 V refet value 8 kW • At AC-23 A # 400 V refet value 7.5 kW • At AC-23 A # 600 V refet value 8 kW • At AC-23 A # 600 V refet value 8 kW • At AC-23 # 400 V refet value 5.5 kW Auxiliary circuit 6 kW number of CC contacts for auxiliary contacts 0 number of CC contacts for auxiliary contacts 0 operating values of auxiliary contacts at AC maximum contacts 500 V Suitability 500 V suitability for use 500 V • attain suice Yes • suitability for use Yes • suitability for use Yes • attain suice Yes • attain suice Yes • contact for auxiliary contact for auxiliary contacts Yes • attain suice Yes • attain suice Yes • attain suice Yes • attain suice No • attain suice No </td <td>operating power</td> <td>4 kW</td>	operating power	4 kW
at AC23 A at 440 V rated value 7.5 kW at AC23 At 1690 V rated value 8 kW at AC23 At 240 V rated value 8 kW at AC23 At 600 V rated value 5.5 kW Auxiliary carcuit 0 number of CO contacts for auxiliary contacts 0 operating value of auxiliary contact site 400 V 500 V contacts for auxiliary contact site 400 V 500 V contacts for auxiliary contact site 400 V 500 V subtability for use		
• at AC-3 A at 600 V rated value 8 kW • at AC-3 at 400 V rated value 8 kW • at AC-3 at 400 V rated value 6 kW • at AC-3 at 400 V rated value 5 kW Auxiliary circuit 0 number of CO contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 contacts for auxiliary contact at AC maximum 500 V contacts for auxiliary contact at AC maximum 500 V contacts for auxiliary contact at AC maximum 500 V sublability for use - • main switch Yes • switch disconnector Yes • maintenance/repair switch Yes • collage trager No • contact for auxiliary contacts 2 • collage trager No • collage trag		
at AC-3 at AOV related value 3 kW at AC-3 at AOV related value 5.5 kW Auxiliary contacts for auxiliary contacts 0 number of CO contacts for auxiliary contacts 0 operating value of auxiliary contacts 0 operating value of auxiliary contacts 0 operating value of auxiliary contact sit AO maximum 500 V continuous current of the auxiliary contact sit AO maximum 500 V continuous current of the auxiliary contact sit AO maximum 500 V auxitability for use • • main wardth Yes • waitch disconnector Yes • switch disconnector Yes • product feature can be locked into OFF position Yes product feature can be locked into OFF position Yes product feature can be locked into OFF position Yes product feature can be locked into OFF position Yes product feature can be locked into OFF position Yes product feature can be locked into OFF position Yes • waiting waiting contacts of auxiliary contacts 2 attachable maximum 1 • unber of Oncetable No Contacts for auxiliary contacts 2 attachable maximum 3 • and to Yes No • attact Yes No		
• at AC-3 at 400 V meter value 5.5 kW Auxiliary circuit 0 Auxiliary circuit 0 Auxiliary circuit 0 Auxiliary circuit 0 Contracts for auxiliary contacts 0 number of NC contacts for auxiliary contacts 0 operating values of auxiliary contacts at AC maximum continuous current of the auxiliary contact rated value 500 V Stability 5 subtability for use - - main switch Yes - which disconnector Yes Product data/s Yes Product data/s - product data/s No - which disconnector Yes Product data/s - number of connectable NC contacts for auxiliary contacts </td <td></td> <td></td>		
• A AC3 at 680 V rated value 5.5 kW Auxiliary critical 0 number of NC contacts for auxiliary contacts 0 operating voltage of auxiliary contacts 0 operating voltage of auxiliary contacts at AC maximum 500 V continuous current of the auxiliary contact at AC and maximum 500 V continuous current of the auxiliary contact at AC at AC 500 V Suitability for use 9 • main switch Yes • switch disconnetor Yes • switch disconnetor Yes • switch disconnetor Yes • roduct details Yes product details Yes product details Yes product details No • roduct disting rogon No • runder of connectable NC contacts for auxiliary contacts 2 • runder of connectable NC contacts for auxiliary contacts 2 • runder of connectable NC contacts for auxiliary contacts 2 • runder of operating of auxiliary contacts 2 • runder of connectable NC contacts for auxiliary contacts 2 • runder o		
number of CC contacts for auxiliary contacts 0 number of KC contacts for auxiliary contacts 0 operating voltage of auxiliary contacts at AC maximum continuous current of the auxiliary contacts at AC maximum continuous current of the auxiliary contact at et value 500 V subability for use 500 V • main switch Yes • wain switch Yes • wain switch Yes • wain switch Yes • maintenance/regain switch Yes • maintenance/regain switch Yes • motor drive No • collage tligger No • collage tligger No • collage tligger No • collage tligger No • motor drive No • collage tligger No • motor drive No • collage tligger No number of connectable NC contacts for auxiliary contacts 2 attachable maximum 3 number of toronectable NC contacts for auxiliary contacts 2 attachable maximum 3 number of connectable NC contacts fo	• at AC-3 at 690 V rated value	5.5 kW
number of NC contacts for auxiliary contacts 0 operating voltage of auxiliary contacts at AC maximum 500 V statute of the auxiliary contacts at AC maximum 500 V statute of the auxiliary contact rated value 500 V statute of the auxiliary contact rated value 500 V statute of the auxiliary contact rated value 500 V statute of the auxiliary contact rated value 500 V statute of the auxiliary contact rated value 500 V statute of the auxiliary contact rated value 500 V statute of the auxiliary contact rated value 500 V statute of the auxiliary contact rated value Ves product extension optional Yes number of oncectable NC contacts for auxiliary contacts 2 attachable maximum No number of oncectable NC contacts for auxiliary contacts 2 attachable maximum 3 attachable maximum 3 attachable maximum 3 attachable maximum 3 KA attachable maximum 3 KA attachable maximum 3 KA attactable for combination switch + gG	Auxiliary circuit	
number of NO contacts for auxiliary contacts at AC maximum 600 V outnitudes current of the auxiliary contact rated value 500 V sublability for use 500 V • main witch Yes • main witch Yes • switch disconnector Yes • switch disconnector Yes • main witch Yes • maintenance/regains witch Yes • maintenance/regains witch Yes • maintenance/regains witch Yes • maintenance/regains witch Yes • motor drive No • motor drive No • woltage rigger No • motor drive No • woltage rigger No number of connectable NC contacts for auxiliary contacts 2 rutachable maximum 3 number of the bracket locks 4 8 mm Short circuit 3 kA et 800 V by g6 fuse rated value 50 k/A leithrough current with line-side fuse maximum 3 kA • at 240 V for combination switch + g6 fuse maximum 3 kA	number of CO contacts for auxiliary contacts	0
operating voltage of auxiliary contacts at AC maximum 500 V Suttability 500 V Suttability 500 V Suttability for use 900 V • main switch Yes • switch disconnetor Yes • switch disconnetor Yes • switch disconnetor Yes • switch disconnetor Yes • mainternance/repair switch Yes product device can be locked into OFF position Yes product device an be locked into OFF position Yes encode textension optional No • modor drive No • under of connectable NC contacts for auxiliary contacts 2 attachable maximum 3 number of connectable NC contacts for auxiliary contacts 2 attachable maximum 3 hest protectable NC contacts for auxiliary contacts 1 attachable maximum 3 hest protectable 0 • attack V for combination switch + gG fuse maximum 3 • at 440 V for combination switch + gG fuse maximum 3 kA • at 440 V for co	number of NC contacts for auxiliary contacts	0
continuous current of the auxiliary contact rated value 500 V Suitability 500 V Suitability for use - • main switch Yes • switch disconnector Yes • EMERGENCY OFF switch Yes • main switch Yes • maintenance/repair switch Yes • maintenance/repair switch Yes Product default - product default - product feature can be locked into OFF position Yes sccssorise - product default - product default - • notor drive No • notor drive No • unalities tigger No • unalities tigger No • unalities optimizer No • unalities tigger No • unalities to favo No • unalities to favo 2 • unalities to favo No • unalities optimizer No • unalities of the auxiliary contacts 2 • attachable maximum 3 • hasp thickness of the bracket locks maximum 3 • attachable maximum 3 • attachable maximum 3 • attachable maximum <t< td=""><td>number of NO contacts for auxiliary contacts</td><td>0</td></t<>	number of NO contacts for auxiliary contacts	0
Insulation voltage of the auxiliary switch rated value 500 V Suitability Suitability Suitability Suitability for use I main switch Switch disconnector I Yes I main switch I Second details I Yes I main switch I Yes I The second details I Yes I Y		500 V
Suitability	-	
suitability for use • main switch • switch disconnector • Yes • EMERGENCY OFF switch • asafety switch • asafety switch • asafety switch • asafety switch • real-tenance/repair switch Yes Product details product feature can be locked into OFF position Yes roduct details product feature can be locked into OFF position Yes roduct details product extension optional • motor drive • voltage trigger number of connectable NC contacts for auxiliary contacts attachable maximum number of bracket locks maximum hasp thickness of the bracket locks attachable maximum hasp thickness of the bracket locks 1 3 4 4 5 1 5 1 5 1 5 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1		500 V
• main switch Yes • switch disconnector Yes • EMERGENCY OF F switch No • safety switch Yes • maintenance/repair switch Yes Product details Product feature can be locked into OFF position Yes Product details No product extension optional • • notor drive No • voltage trigger No number of connectable NC contacts for auxiliary contacts 2 attachable maximum 2 number of connectable CO contacts for auxiliary contacts 2 attachable maximum 3 number of connectable CO contacts for auxiliary contacts 4 & mm Short circuit 0 contacts lor auxiliary contacts 4 & mm Short circuit 50 kA ettrough current with line-side fuse protection 3 kA • at 630 V by gG fuse rated value 50 kA ettrough current with closed switch 3 kA • at 440 V for combination switch + gG fuse maximum 3 kA2 • at 440 V for combination switch + gG fuse maximum 3 kA2 • at 440 V for combination switch + gG fuse maximum 3 kA2 • at 440 V for combination switch + gG fuse maximum 3 kA2 • at 440 V for combination switch + gG fu		
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Safety switch Yes maintenance/repair switch Yes maintenance/repair switch Yes product deals product feature can be locked into OFF position Yes eccessories product setemsion optional • motor drive No • voltage trigger No • under of connectable NC contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of connectable NO contacts for auxiliary contacts attachable maximum number of bracket locks maximum aution of the tracket locks attachable maximum aution of the tracket locks attachable maximum at 6800 V by G fuse rated value bettrough combination switch + gG fuse maximum at 680 V for combination switch + gG f		
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conditional short-circuit current with line-side fuse protection 6 e at 690 V by gG fuse rated value 50 kA let-through current with closed switch 3 e at 240 V for combination switch + gG fuse maximum permissible 3 kA 12t value with closed switch 3 e at 440 V for combination switch + gG fuse maximum permissible 2.5 kA2.s 12t value with closed switch 2.5 kA2.s e at 440 V for combination switch + gG fuse maximum permissible 3 kA 12t value with closed switch 2.5 kA2.s e at 440 V for combination switch + gG fuse maximum skA2.s 4.6 g00 V for combination switch + gG fuse maximum skA2.s design of the fuse link 1 fuse gL/gG: 20 A e for short-circuit protection of the main circuit required fuse gL/gG: 10 A operational current at AC according to UL 508/UL 60947- 16 A 4-1 rated value 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 60947- 16 A 4-1 rated value 600 V operating voltage at AC at 50/60 Hz according to UL 508/UL 60947- 16 A 4-1 rated value 7.5 operating voltage at AC at 50/60 Hz according to UL 508/UL 600 V 7.5 600 V 508/UL 60947-4-1 rate	•	4 8 mm
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		7.5
	active power [hp] at AC at 600 V according to UL 508/UL	10

short-time withstand current (SCCR) at 600 V according to	5 kA
UL 508/UL 60947-4-1 continuous current of upstream fuse according to UL rated	50 A
value	
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 stranded 	1x (14mm²) 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 mm ²), 1x 4 mm ²
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 fastening method	Built-in unit fixed-mounted version
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	
O a a firm a time	
Confirmation	Miscellaneous
CSA CCC	UL VDE
General Product Declaration of Conformity	Test Certificates Marine / Shipping
General Product Approval Declaration of Conformity	Test Certificates Marine / Shipping
Approval Declaration of Conformity	
Approval Declaration of Conformity	Special Test Certific- ate
	Special Test Certific- ate Register
Approval Declaration of Conformity	Special Test Certific- ate
	Special Test Certific- ate Register
Approval Declaration of Conformity	Special Test Certific- ate Hovds URS
	Special Test Certific- ate Hovds URS
Approval Declaration of Conformity Line Line Line Line Other Environment	Special Test Certific- ate Lovds URS
Approval Declaration of Conformity	Special Test Certific- ate Lowds Uss
Approval Declaration of Conformity Line Line Image: Confirmation of Conformity Approval Image: Confirmation of Conformity	Special Test Certific- ate Lowds Uss

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=3LD2054-0TK51

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2054-0TK51

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

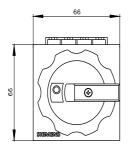
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2054-0TK51

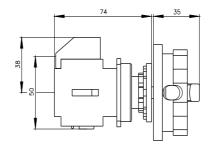
CAx-Online-Generator

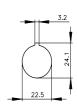
http://www.siemens.com/cax

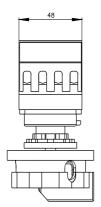
Tender specifications

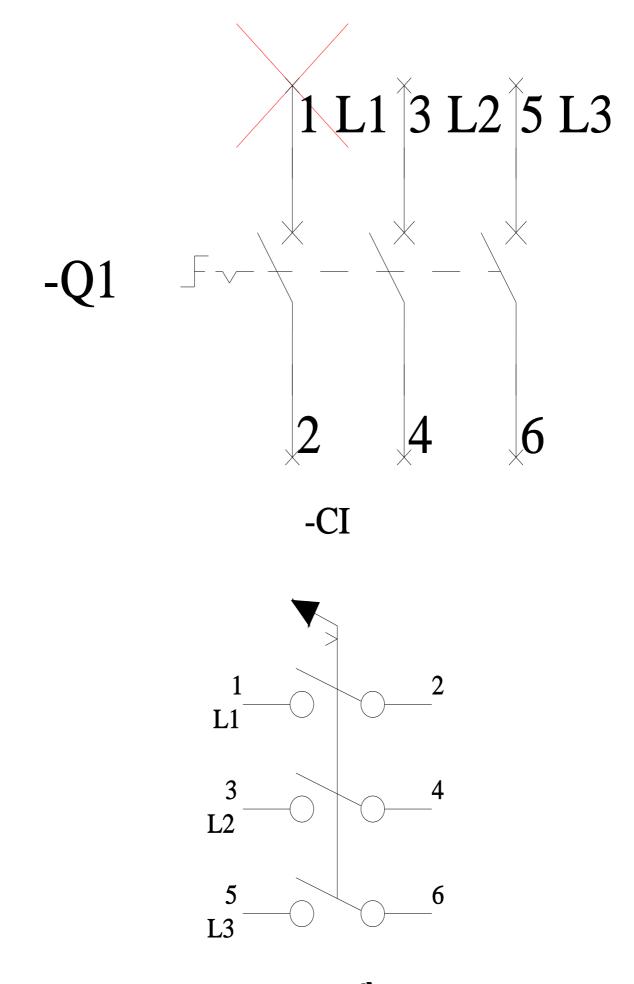
http://www.siemens.com/specifications











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