SIEMENS

Data sheet

3LD2530-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 63 A, operating power / at AC-23 A 400 V: 22 kW, installation in distribution boards, knob-operated mechanism, Red / yellow, handle direct at the switch

Model	
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	DIN-rail mounting
design of the actuating element	selector switch
color of the actuating element	red
design of handle	knob-operated mechanism, red/yellow
type of the driving mechanism motor drive	No
General technical data	
number of poles	3
size of switch disconnector	3
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	IP40
protection class IP on the front	IP40
Dissipation	
power loss [W] for rated value of the current at AC in hot operating state per pole	4.5 W
Main circuit	
operational current	
• at AC-21 at 690 V rated value	63 A
• at AC-21 A at 240 V rated value	63 A
• at AC-21 A at 400 V rated value	63 A
• at AC-21 A at 440 V rated value	63 A
• at AC-23 A at 400 V rated value	43 A
operating power	

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 a) AL-221A alt 240 V finite value a) AL-223A at 240 V rates value a) AL-23A at 240 V rates value a) AL-23A at 240 V rates value b) WW a) AL-23 at 240 V rates value b) WW a) AL-23 at 240 V rates value b) WW a) AL-23 at 240 V rates value b) WW a) AL-23 at 240 V rates value b) WW a) AL-23 at 240 V rates value b) WW a) AL-23 at 240 V rates value b) WW a) AL-23 at 240 V rates value b) WW a) AL-23 at 260 V rates value b) WW a) AL-23 at 260 V rates value b) WW a) AL-23 at 260 V rates value b) WW a) AL-23 at 260 V rates value c) Contracts for availage contracts c) Contracts for availage contracts c) Contracts for availage contracts c) Contracts for availage contract at 20 C maxmund c) WW c) All AL-24 at 240 V rates value c) All AL-240 V rates value d) All AL-240 V rates value		
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• at AC3 at 400 Y rade value 15 kW Auxiliary cross 0 number of Coortacks for auxiliary contacts 0 operating values of auxiliary contacts at AC maximum 00 V contacts of auxiliary contact at AC maximum 00 V contacts of auxiliary contact at AC maximum 00 V contacts of auxiliary contact at AC maximum 00 V contacts of auxiliary contact at AC maximum 00 V contacts of auxiliary contact net value 00 V subtability Subtability subtability Subtability subtability Vesi • main switch Yes • auxith disconnector Yes • auxith disconnector pair which Yes • auxith disconnector pair which Yes • auxith disconnector pair which Yes • auxith disconnector for auxiliary contacts 2 reduct satures on blocked inthe OFF position Yes • auxith disconnector for auxiliary contacts 2 reduct satures on blocked inthe OFF position 2 reduct satures on blocked inth OFF position 2 reduct sat	 at AC-23 A at 690 V rated value 	19 kW
• at AC3 at 630 V rated value 15 kW Auxiliary cleant 0 number of CO contack for auxiliary contacts 0 ontaction of NC contack for auxiliary contacts 0 operating voltage of auxiliary contact at AC maximum 500 V operating voltage of auxiliary contact at et Auxiliary 500 V stability for use 0 • mains writin Vels • mains writin Vels • mains writin Vels • awath discontedor Vels • awath discontedor for auxiliary contacts 1 • awath discontedor for auxiliary contacts 1 • awath discontedor for auxiliary contacts 1 • awath discot for auxiliary contacts 1 <td> at AC-3 at 240 V rated value </td> <td>11 kW</td>	 at AC-3 at 240 V rated value 	11 kW
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Institution voltage of the auxiliary switch rated value 500 V Statishity • main switch Yes • work in disconnector Yes • switch disconnector Yes • main switch Yes • switch disconnector Yes • main smitch Yes • main smitch Yes • main smitch Yes • main smitch Yes • moder can be located into CFF position Yes statestands name product extension optional No • motor drive No • attachable maximum 2 hashable maximum 2 hashable maximum 2 hashable maximum 2 hashab	operating voltage of auxiliary contacts at AC maximum	500 V
Suitability suitability for use • main switch Yes • EMERGENCY OFF switch Yes • EMERGENCY OFF switch Yes • maintenance/repair switch Yes Product feature can be looked into OFF position Yes product feature can be looked into OFF position Yes sccssories product scalars product scalars can be looked into OFF position Yes accssories No • wilding effiger No • unitage figer No number of connectable NC contacts for auxiliary contacts 2 attachable maximum 2 number of connectable NC contacts for auxiliary contacts 0 attachable maximum 2 reader looks maximum 2 reader looks maximum 2 stabchable maximum 2 reader looks maximum 2 stabchable maximum 2 reader looks maximum 6 kA et after congluter with closed switch 6 lase maximum et after congluterent with closed switch 2 lase maximum	continuous current of the auxiliary contact rated value	10 A
suitability for use	insulation voltage of the auxiliary switch rated value	500 V
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• at 240 V for combination switch + gG fuse maximum 6 kA • at 440 V for combination switch + gG fuse maximum 6 kA • at 690 V for combination switch + gG fuse maximum 6 kA permissible 6 kA !2t value with closed switch 21 kA2.s • at 240 V for combination switch + gG fuse maximum 21 kA2.s • at 440 V for combination switch + gG fuse maximum 21 kA2.s • at 440 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s design of the fuse link fuse gL/gG: 63 A • for short-circuit protection of the main circuit required fuse gL/gG: 10 A operational current of upstream fuse rated value 63 A according UL 600 V operating oulcurrent at AC according to UL 508/UL 60947-4-1 63 A active power [hp] at AC at 600 V according to UL 508/UL 60947-41 60 4-1 rated value 50 active power [hp] at AC at 600 V according to UL 508/UL 60947-41 50 4-1 rated value 5 kA		50 kA
• at 440 V for combination switch + gG fuse maximum permissible6 kA• at 690 V for combination switch + gG fuse maximum permissible6 kA• at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 690 V scoording to UL 508/UL 60947-4-1 • for at ed value63 A• active power [hp] at AC at 600 V according to UL 508/UL 60947- • 4-1 rated value600 V600 V• for the swithstand current (SCCR) at 600 V according to UL 508/UL 60947-4-150 </td <td></td> <td></td>		
• at 690 V for combination switch + gG fuse maximum permissible6 kAI2t value with closed switch • at 240 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum • at 440 V for combination switch + gG fuse maximum 21 kA2.s • at 690 V for combination switch + gG fuse maximum 21 kA2.s21 kA2.s• at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 690 V for combination switch + gG fuse maximum • at 600 V for combination switch + gG fuse maximum • for short-circuit protection of the main circuit required fuse gL/gG: 63 A fuse gL/gG: 10 A • 63 A• for short-circuit protection of the auxiliary switch required • fuse gL/gG: 10 A• operational current of upstream fuse rated value • operational current of upstream fuse rated value • operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 • for a 4-1 rated value• operating voltage at AC at 480 V according to UL 508/UL 60947- • 4-1 rated value• active power [hp] at AC at 480 V according to UL 508/UL 60947- • 4-1 rated value• active power [hp] at AC at 600 V according to UL 508/UL 60947- • 4-1 rated value• short	-	
permissibleI2t value with closed switch• at 240 V for combination switch + gG fuse maximum21 kA2.s• at 440 V for combination switch + gG fuse maximum21 kA2.s• at 690 V for combination switch + gG fuse maximum21 kA2.sdesign of the fuse link• for short-circuit protection of the main circuit required• for short-circuit protection of the auxiliary switch required• for short-circuit protection of the auxiliary switch required• perational current of upstream fuse rated value• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL• operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-• operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-• operating voltage at AC at 480 V according to UL 508/UL 60947-• operating voltage at AC at 480 V according to UL 508/UL 60947-• operating voltage at AC at 480 V according to UL 508/UL 60947-• operating voltage at AC at 500 V according to UL 508/UL 60947-• operating voltage at AC at 480 V according		
• at 240 V for combination switch + gG fuse maximum21 kA2.s• at 440 V for combination switch + gG fuse maximum21 kA2.s• at 690 V for combination switch + gG fuse maximum21 kA2.sdesign of the fuse link21 kA2.s• for short-circuit protection of the main circuit requiredfuse gL/gG: 63 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aoperational current of upstream fuse rated value63 Aaccording ULoperational current at AC according to UL 508/UL 60947-4-1operating voltage at AC at 50/60 Hz according to UL 508/UL600 V60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value40active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-15 kA		6 kA
• at 440 V for combination switch + gG fuse maximum21 kA2.s• at 690 V for combination switch + gG fuse maximum21 kA2.sdesign of the fuse link21 kA2.s• for short-circuit protection of the main circuit requiredfuse gL/gG: 63 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aoperational current of upstream fuse rated value63 Aaccording ULoperational current at AC according to UL 508/UL 60947-4-1operating voltage at AC at 50/60 Hz according to UL 508/UL600 V60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value50active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL5 kA	l2t value with closed switch	
• at 690 V for combination switch + gG fuse maximum21 kA2.sdesign of the fuse link.• for short-circuit protection of the main circuit requiredfuse gL/gG: 63 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aoperational current of upstream fuse rated value63 Aaccording UL.operational current at AC according to UL 508/UL 60947-4-163 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1600 V60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value50active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50	 at 240 V for combination switch + gG fuse maximum 	21 kA2.s
design of the fuse linkfuse gL/gG: 63 A• for short-circuit protection of the main circuit requiredfuse gL/gG: 63 A• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aoperational current of upstream fuse rated value63 Aaccording ULoperational current at AC according to UL 508/UL 60947-4-1operating voltage at AC at 50/60 Hz according to UL 508/UL600 V60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947-40active power [hp] at AC at 600 V according to UL 508/UL 60947-504-1 rated value508/UL 60947-4-1	 at 440 V for combination switch + gG fuse maximum 	21 kA2.s
 for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required fuse gL/gG: 63 A for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A operational current of upstream fuse rated value 63 A according UL operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 for short-circuit protection to UL 508/UL 60947-4-1 active power [hp] at AC at 480 V according to UL 508/UL 60947- active power [hp] at AC at 600 V according to UL 508/UL 60947- for short-circuit protection to UL 508/UL 60947- for short-circuit protection to the auxiliary switch required for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required fuse gL/gG: 10 A fuse gL/ge: 10 A fuse gL/ge	 at 690 V for combination switch + gG fuse maximum 	21 kA2.s
• for short-circuit protection of the auxiliary switch requiredfuse gL/gG: 10 Aoperational current of upstream fuse rated value63 Aaccording UL63 Aoperational current at AC according to UL 508/UL 60947-4-1 rated value63 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value40active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-15 kA	design of the fuse link	
operational current of upstream fuse rated value63 Aaccording ULoperational current at AC according to UL 508/UL 60947-4-163 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL600 V60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value40active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-15 kA	 for short-circuit protection of the main circuit required 	fuse gL/gG: 63 A
according ULoperational current at AC according to UL 508/UL 60947-4-1 rated value63 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value40active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-15 kA	 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current at AC according to UL 508/UL 60947-4-1 rated value63 Aoperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value40active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-15 kA	operational current of upstream fuse rated value	63 A
rated value600 Voperating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value600 Vactive power [hp] at AC at 480 V according to UL 508/UL 60947- 4-1 rated value40active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-15 kA	according UL	
60947-4-1 rated value 40 active power [hp] at AC at 480 V according to UL 508/UL 60947- 40 4-1 rated value 50 active power [hp] at AC at 600 V according to UL 508/UL 60947- 50 4-1 rated value 50 short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947- 5 kA		63 A
4-1 rated value active power [hp] at AC at 600 V according to UL 508/UL 60947- 50 4-1 rated value short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1 5 kA		600 V
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value50short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-15 kA	active power [hp] at AC at 480 V according to UL 508/UL 60947-	40
508/UL 60947-4-1	active power [hp] at AC at 600 V according to UL 508/UL 60947-	50
continuous current of upstream fuse according to UL rated value 175 A		5 kA
	continuous current of upstream fuse according to UL rated value	175 A

type of fuse according to	o UL	RK	5				
Connections							
AWG number as coded	connectable conductor cross	section					
solid							
 maximum 		6	6				
 minimum 		14					
type of connectable con conductor	nductor cross-sections for copp	er					
 solid 		1x	1x (2,535mm²)				
 finely stranded w 	ith core end processing	1x	1x (2.516 mm ²)				
 stranded 		1x	1x (2,535mm ²)				
type of connectable con contacts	nductor cross-sections for auxil						
 solid 		2x	2x (0.75 2.5 mm²), 1x 4 mm²				
	ith core end processing		2x (0.75 1.5 mm ²), 1x 2.5 mm ²				
stranded	an oor on a proceeding		(0.75 2.5 mm²), 1x 4 mm				
type of electrical connect	ction		(0.70 2.0 mm), 1x 4 mm				
for main current of the formain current of the formain current of the formain current of the formation		bo	k terminal				
for auxiliary conta		COI	nnection terminals				
Mechanical Design							
height			64 mm				
width			64 mm				
depth			93 mm				
type of device		fixe	fixed mounting				
fastening method		Bu	Built-in unit fixed-mounted version				
fastening method							
 4-hole front mour 	nting	No	No				
 front mounting wi 	ith central attachment	No	No				
 rail mounting 		Ye	S				
net weight		304	4 g				
Environmental condition	ns						
ambient temperature du							
• minimum				-25 °C			
maximum		55					
ambient temperature du	iring storage	000	0				
minimum		25	05 °O				
				-25 °C			
maximum	1	55	55 °C				
General Product Appr	roval						
(SI)	Confirmation	(DE	Miscellaneous		
				VOF			
1.54			UL	ADE.			
General Product Ap-							
proval	Declaration of Conformity		Test Certificates	Marine / Shipping	other		
		1.112	Special Test Certific-		Missellanceus		
EAC	((UK CA	<u>special Test Certific-</u> <u>ate</u>	Lloyds	<u>Miscellaneous</u>		
ГПI				Register			
	EG-Konf.	СН		LRS			
- 41	Fundament						
other	Environment						
Confirmation	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/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2530-0TK13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2530-0TK13

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

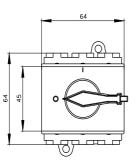
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2530-0TK13

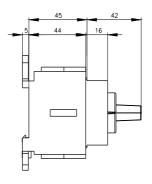
CAx-Online-Generator

http://www.siemens.com/cax

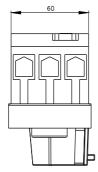
Tender specifications

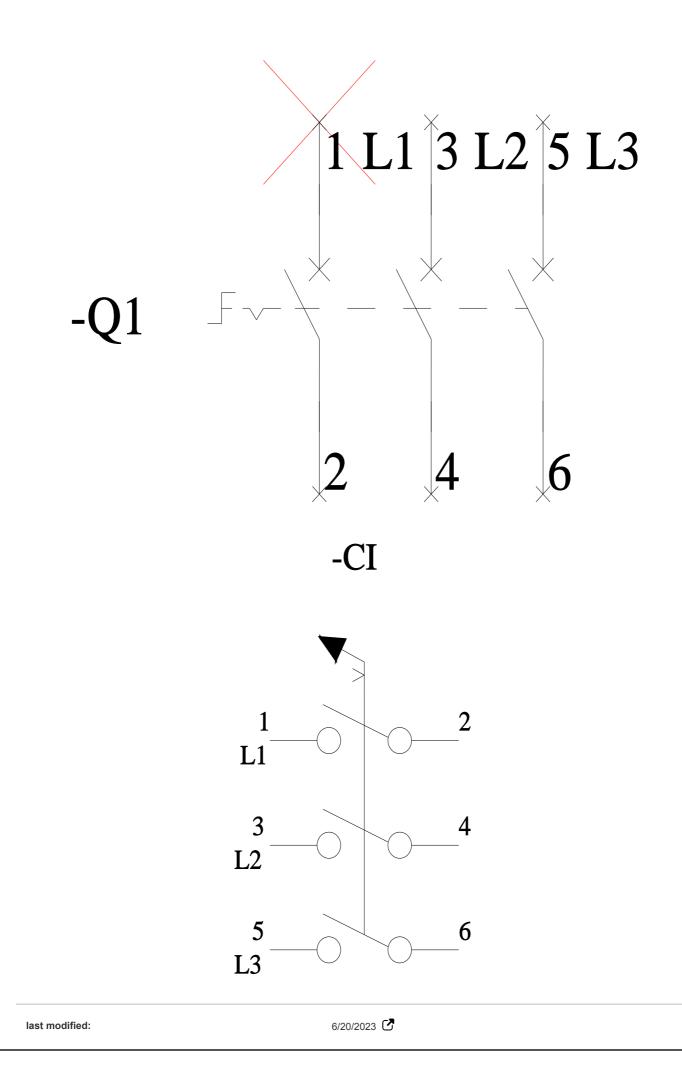
http://www.siemens.com/specifications











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