SIEMENS

Data sheet 3LD2130-0TK13



SENTRON, Switch disconnector 3LD, emergency switching-off switch, 3-pole, lu: 25 A, operating power / at AC-23 A 400 V: 9.5 kW, installation in distribution boards, knob-operated mechanism, Red / yellow, handle direct at the switch

product brand name SENTRON	Model	
design of the product display version / for switch position indicator manual operation type of switch DIN-rail mounting selector switch color / of the actuating element design of the actuating element red design of handle type of the driving mechanism / motor drive Reneral 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 frequency / rated value of the current / at AC / in htt operating state / per pole Current operational current / rated value	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 type of switch design of handle type of the driving mechanism / motor drive Rob-operated mechanism, red/yellow type of the driving mechanism / motor drive No General technical data number of poles size of switch disconnector general acturance (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / 6 000 operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage at AC / 2 rated value operating frequency / rated value minimum operating frequency / rated value maximum for Hz protection class IP protection class IP protection class IP protection class IP IP40 protection class IP4 IP40 protection cla	product designation	3LD Switch disconnector
operation type of switch design of the actuating element color / of the actuating element design of handle knob-operated 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) • at AC-23 A I at 690 V operating frequency / maximum for operating frequency / maximum for operating frequency / rated value foperating voltage / rated value operating voltage • at AC / rated value • minimum • min	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 2 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) / typical electrical endurance (switching cycles) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage resistance / rated value operating voltage • at AC / rated value • minimum operating frequency / rated value • minimum for the driving mechanism, red/yellow for the driving mechanism, red/yellow / No 3 / Outper design of handle mechanism, red/yellow // No 000 000 000 000 000 000 000 000 000		1 ON - 0 OFF
color / of the actuating element design of handle knob-operated mechanism, red/yellow type of the driving mechanism / motor drive Peneral technical data number of poles size of switch disconnector 2 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 50 1/h degree of pollution 3 Voltage insulation voltage / rated value operating voltage e at AC / rated value operating frequency / rated value operation class IP protection class IP 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 Current operational current / rated value ot at 40 °C / rated value ot at 40 °C / rated value ot at 45 °C / rated value 25 A operational current	type of switch	DIN-rail mounting
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 2 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 690 V operating frequency / material value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V operating requency / rated value 690 V operating resistance / rated value 690 V operating frequency / rated value 600 Hz Protection class IP 100 the front 1P40 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 25 A	design of the actuating element	selector switch
type of the driving mechanism / motor drive General technical data number of poles 3 size of switch disconnector 2 mechanical service life (switching cycles) / typical 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 operating voltage resistance / rated value • 690 V surge voltage resistance / rated value operating frequency / rated value • minimum • at AC / rated value • minimum • bo Hz Protection class IP protection class IP protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value • at 40 °C / rated value • at 40 °C / rated value • at 45 °C / rated value	color / of the actuating element	red
Insulation voltage / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V surge voltage resistance / rated value 690 V operating frequency / rated value 690 V surge voltage resistance / rated value 690 V operating voltage 690 V operating voltage 690 V operating voltage 690 V operating voltage 690 V operating frequency / rated value 690 Hz operating frequency / rated value 690 Hz operating frequency / rated value 690 Hz operation class IP / on the front 1940 Dissipation 1940 Dissipation 1940 Dissipation 1940 Dissipation 25 A operational current / rated value 25 A operational current 0 at 40 °C / rated value 25 A	design of handle	knob-operated 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 50 1/h degree of pollution 3 Voltage 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 IP protection class IP / on the front Dissipation Dissipation power loss [N] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value • at 45 °C / rated value • 25 A	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 degree of pollution 70	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 3 Voltage insulation voltage / rated value operating voltage resistance / rated value operating yoltage • at AC / rated value operating frequency / rated value • minimum omaximum for Hz40 Protection class IP protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value at 40 °C / rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	number of poles	3
electrical endurance (switching cycles) • 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 • minimum • maximum 60 Hz Protection class IP protection class IP/ protect	size of switch disconnector	2
at AC-23 A / at 690 V operating frequency / maximum fegree 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 ominimum omi	mechanical service life (switching cycles) / typical	100 000
operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value surge voltage resistance / rated value operating voltage • at AC / rated value • minimum • maximum • maximum Frotection class protection class IP protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	electrical endurance (switching cycles)	
degree of pollution 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 Current operational current / rated value • at 40 °C / rated value • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	• 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 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 Current operational current / rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 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 IP40 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 Current operational current / rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	degree of pollution	3
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum Frotection class protection class IP protection class IP	Voltage	
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz Frotection class protection class IP protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	insulation voltage / rated value	690 V
at AC / rated value operating frequency / rated value minimum maximum for Hz Protection class protection class IP protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value at 40 °C / rated value at 40 °C / rated value at 45 °C / rated value 25 A operational current at 45 °C / rated value 25 A	surge voltage resistance / rated value	6 kV
operating frequency / rated value • minimum • maximum 60 Hz Protection class protection class IP protection class IP	operating voltage	
minimum maximum m	at AC / rated value	690 V
● maximum Protection class protection class IP protection class IP / on the front IP40 protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current ● at 40 °C / rated value at 45 °C / rated value 25 A et at 45 °C / rated value 25 A	operating frequency / rated value	
protection class IP protection class IP / on the front 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 Current operational current / rated value operational current • at 40 °C / rated value • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	• minimum	50 Hz
protection class IP 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 Current operational current / rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A	• maximum	60 Hz
protection class IP / on the front Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current operational	Protection class	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value operational current operational current otherwise at 40 °C / rated value at 45 °C / rated value 25 A at 45 °C / rated value 25 A	protection class IP	IP40
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value • at 40 °C / rated value • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	protection class IP / on the front	IP40
hot operating state / per pole Current operational current / rated value operational current • at 40 °C / rated value • at 45 °C / rated value 25 A • at 45 °C / rated value 25 A	Dissipation	
operational current / rated value 25 A operational current • at 40 °C / rated value 25 A • at 45 °C / rated value 25 A		1.1 W
operational current • at 40 °C / rated value • at 45 °C / rated value 25 A 25 A	Current	
 at 40 °C / rated value at 45 °C / rated value 25 A 25 A 	operational current / rated value	25 A
• at 45 °C / rated value 25 A	operational current	
	 at 40 °C / rated value 	25 A
• at 50 °C / rated value 25 A	 at 45 °C / rated value 	25 A
	 at 50 °C / rated value 	25 A

• at 55 °C / rated value	25 A
at AC / rated value	25 A
Main circuit	
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 400 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
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	4
/ attachable / maximum	0
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
number of bracket locks / maximum	2
hasp thickness / of the bracket locks	4 6 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
I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	4 kA2.s
I2t value / with closed switch / 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 (1,516mm²)
 finely stranded / with core end processing 	1x (1,510mm²)
• stranded	1x (1,516mm²)
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 for auxiliant contacts	box terminal
for auxiliary contacts Machanical Posicy	connection terminals
Mechanical Design	FF
height	55 mm 53 mm
width	
depth two of devices	91 mm
type of device	fixed mounting Built-in unit fixed-mounted version
fastening method fastening method	Built-III unit likeu-iiiounteu veision
4-hole front mounting	No
front mounting front mounting with central attachment	No
• rail mounting	Yes
net weight	164 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





Miscellaneous









Environmental Confirmations **Miscellaneous**

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=3LD2130-0TK13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2130-0TK13

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

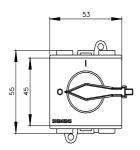
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2130-0TK13

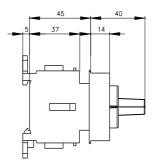
CAx-Online-Generator

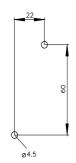
http://www.siemens.com/cax

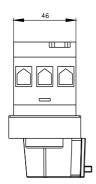
Tender specifications

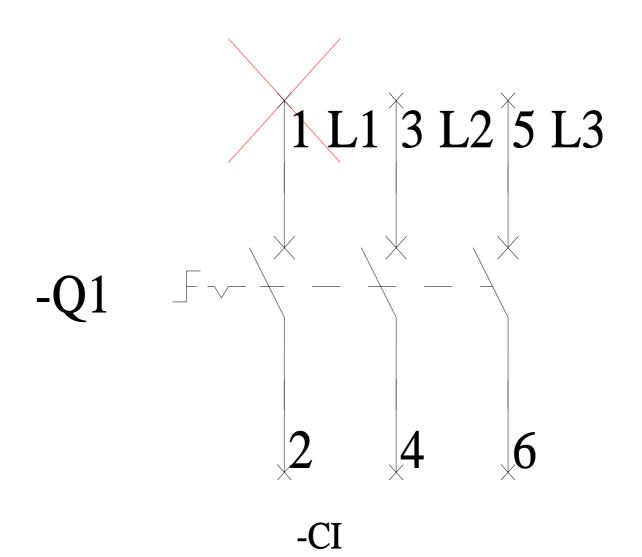
http://www.siemens.com/specifications

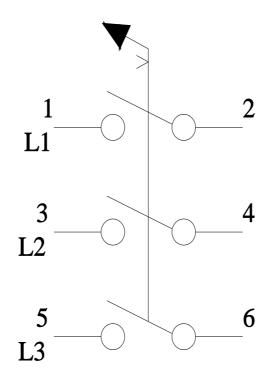












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