SIEMENS

Data sheet

3LD2330-0TK13



SENTRON, switch disconnector 3LD, emergency switching-off switch, 3- pole, lu: 160 A, operating performance / at AC-23 A at 400 V: 75 kW, installation in distribution boards, knob-operated mechanism, red/yellow, handle direct at the switch

product brand name SENTRON groduct designation Switch disconnector design of the product EMERGENCY-STOP switch dipplay version for switch position indicator manual operation 10N - 0 OFF type of switch DiN-rail mounting design of the actuating element selector switch color of the actuating element red design of hundle Knob-operated mechanism, red/yellow type of the driving mechanism motor drive No Operational data	Model	
design of the product EMERGENCY-STOP switch display version for switch position indicator manual operation 10N - 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 mochanism motor drive No Central technical data	product brand name	SENTRON
display version for switch position indicator manual operation 1 ON - 0 OFF type of switch DIN-trail 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 number of poles 3 size of switch disconnector 5 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 e at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage	product designation	Switch disconnector
operation DN-rail mounting design of the actuating element red color of the actuating element red design of handle knob-operated mechanism, red/yellow Vype of the driving mechanism motor drive No Ceneral technical data Immber of poles number of poles 3 size of switch disconnector 5 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V operating requency maximum 60 0/V surge voltage resistance rated value 690 V operating requency maximum 60 PV operating requency maximum 60 Hz operating requency maximum 60 V operating requency material value 690 V operating requency material value 690 V operating requency material value 690 V operating requency mated value 60	design of the product	EMERGENCY-STOP switch
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color of the actuating element red design of handle knob-operated mechanism, red/yellow type of the driving mechanism motor drive No Concret technical data	type of switch	DIN-rail mounting
design of handle knob-operated mechanism, red/yellow type of the driving mechanism motor drive No Cenoral technical data Immber of poles size of switch disconnector 5 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 6000 operating frequency maximum 50 1/h degree of pollution 3 Voltage Insulation voltage rated value insulation voltage rated value 690 V surge voltage resistance rated value 8kV operating frequency maximum 601 Hz operating voltage est AC rated value insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 V insulation voltage rated value 690 V operating totage ett AC rated value operating frequency rated value 690 V operating frequency rated value 600 Hz Protection class IP IP40 protection class IP on the front IP40 porter loss (M) for rated value of the current at AC in hot operating state per p	design of the actuating element	selector switch
type of the driving mechanism motor drive No Ceneral technical lata	color of the actuating element	red
General technical data number of poles 3 size of switch disconnector 5 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 • at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage	design of handle	knob-operated mechanism, red/yellow
number of poles 3 size of switch disconnector 5 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 60 00 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 600 Hz Protection class IP IP40 protection class IP on the front IP40 poser loss S(M) for rated value of the current at AC in hot operating state per pole 36 W Main circuit 0 operational current 480 A • at AC-21 A at 240 V rated value 160 A • at AC-21 A at 240 V rated value 160 A <th>type of the driving mechanism motor drive</th> <th>No</th>	type of the driving mechanism motor drive	No
size of switch disconnector 5 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 • 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 690 V operating frequency rated value 600 Hz Protection class IP IP40 positional IP40 positional 36 W operational current 36 W • at AC-21 at 690 V rated value 160 A •	General technical data	
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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 routage • at AC rated value 690 V operating requency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 60 Hz Protection class protection class IP protection class IP on the front IP40 protection class IP on the front Dissipation Øperating state per pole Main circuit operational current • at AC-21 at 690 V rated value 160 A • at AC-21 A at 240 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value	size of switch disconnector	5
• at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage resistance rated value 690 V surge voltage resistance rated value 8 kV operating voltage 6 00 V • at AC rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class IP IP40 protection class IP IP40 protection class IP IP40 power loss [W] for rated value of the current at AC in hot operating state per pole 36 W operational current 36 W • at AC-21 at 690 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A	mechanical service life (operating cycles) typical	100 000
operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value 690 V insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 190 V protection class IP IP40 protection class IP on the front IP40 poser loss [W] for rated value of the current at AC in hot operating state per pole 36 W operating state per pole 400 V Main circuit 0 operational current 160 A • at AC-21 A at	electrical endurance (operating cycles)	
degree of pollution 3 Voltage insulation voltage rated value 690 V surge voltage resistance rated value 8 kV operating voltage 690 V • at AC rated value 690 V operating frequency rated value 690 V • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class IP IP40 protection class IP on the front IP40 Dissipation 36 W operating state per pole 36 W Main circuit 0 operational current 160 A • at AC-21 at 690 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A	• at AC-23 A at 690 V	6 000
Voltage insulation voltage rated value 690 V surge voltage resistance rated value 8 kV operating voltage 8 kV • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP on the front IP40 Dissipation 36 W operating state per pole 36 W Main circuit 0 operating late per pole 160 A • at AC-21 at 890 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 440 V rated value 160 A • at AC-21 A at 440 V rated value 160 A • at AC-21 A at 440 V rated value 160 A	operating frequency maximum	50 1/h
insulation voltage rated value 690 V surge voltage resistance rated value 8 kV operating voltage 690 V • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP on the front IP40 Dissipation gever loss [W] for rated value of the current at AC in hot operating state per pole Main circuit 36 W operatingal current 160 A • at AC-21 at 690 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 440 V rated value 160 A	degree of pollution	3
surge voltage resistance rated value 8 kV operating voltage 690 V • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP on the front IP40 protection class IP on the front IP40 Dissipation 36 W power loss [W] for rated value of the current at AC in hot operating state per pole 36 W Main circuit 0perational current • at AC-21 at 690 V rated value 160 A • at AC-21 A at 240 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A • at AC-21 A at 400 V rated value 160 A	Voltage	
operating voltage 690 V operating frequency rated value 690 V operating frequency rated value 60 Hz minimum 60 Hz Protection class IP40 protection class IP IP40 protection class IP on the front IP40 Dissipation iperating state per pole Main circuit 36 W operational current 160 A • at AC-21 A at 240 V rated value 160 A • at AC-21 A at 440 V rated value 160 A	insulation voltage rated value	690 V
• at AC rated value 690 V operating frequency rated value 50 Hz • minimum 60 Hz Protection class 60 Hz protection class IP IP40 protection class IP on the front IP40 Dissipation IP40 power loss [V] for rated value of the current at AC in hot operating state per pole 36 W Main circuit operational current • at AC-21 at 690 V rated value 160 A • at AC-21 A at 440 V rated value 160 A • at AC-21 A at 440 V rated value 160 A • at AC-21 A at 440 V rated value 160 A • at AC-21 A at 440 V rated value 160 A	surge voltage resistance rated value	8 kV
operating frequency rated value50 Hz• minimum50 Hz• maximum60 HzProtection classprotection class IPIP40protection class IP on the frontIP40DissipationIP40Dissipation36 WMain circuit36 Woperating state per pole160 A• at AC-21 at 690 V rated value160 A• at AC-21 A at 400 V rated value160 A• at AC-21 A at 400 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A	operating voltage	
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• maximum60 HzProtection classIP40protection class IPIP40protection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating state per pole36 WMain circuitIP40operational current160 A• at AC-21 A at 240 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A	operating frequency rated value	
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protection class IPIP40protection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating state per pole36 WMain circuit36 Woperational current160 A• at AC-21 A at 240 V rated value160 A• at AC-21 A at 400 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A	• maximum	60 Hz
protection class IP on the frontIP40DissipationIP40power loss [W] for rated value of the current at AC in hot operating state per pole36 WMain circuitGenerational current• at AC-21 at 690 V rated value160 A• at AC-21 A at 240 V rated value160 A• at AC-21 A at 400 V rated value160 A• at AC-21 A at 400 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A• at AC-21 A at 440 V rated value160 A	Protection class	
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 36 W Main circuit Provide the current operational current Image: The state operational current • at AC-21 at 690 V rated value 160 A 160 A • at AC-21 A at 240 V rated value 160 A 160 A • at AC-21 A at 400 V rated value 160 A 160 A • at AC-21 A at 400 V rated value 160 A 160 A	protection class IP	IP40
power loss [W] for rated value of the current at AC in hot operating state per pole 36 W Main circuit	protection class IP on the front	IP40
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 240 V rated value • 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 rated value • at AC-21 A at 440 V rated value	Dissipation	
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• at AC-21 at 690 V rated value160 A• at AC-21 A at 240 V rated value160 A• at AC-21 A at 400 V rated value160 A• at AC-21 A at 440 V rated value160 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 160 A 160 A 	operational current	
 at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 160 A 160 A 	• at AC-21 at 690 V rated value	160 A
• at AC-21 A at 440 V rated value 160 A	• at AC-21 A at 240 V rated value	160 A
	• at AC-21 A at 400 V rated value	160 A
• at AC-23 A at 400 V rated value 132 A	• at AC-21 A at 440 V rated value	160 A
	• at AC-23 A at 400 V rated value	132 A

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operating power	
 at AC-23 A at 240 V rated value 	132 kW
 at AC-23 A at 400 V rated value 	132 kW
 at AC-23 A at 440 V rated value 	132 kW
 at AC-23 A at 690 V rated value 	45 kW
 at AC-3 at 240 V rated value 	35 kW
 at AC-3 at 400 V rated value 	50 kW
 at AC-3 at 690 V rated value 	37 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
suitability for use switch disconnector	Yes
suitability for use EMERGENCY OFF switch	Yes
suitability for use safety switch	Yes
suitability for use 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	2
attachable maximum	
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 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 	15 kA
 at 440 V for combination switch + gG fuse maximum 	15 kA
 at 690 V for combination switch + gG fuse maximum permissible 	15 kA
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	185 kA2.s
 at 440 V for combination switch + gG fuse maximum 	185 kA2.s
 at 690 V for combination switch + gG fuse maximum 	185 kA2.s
design of the fuse link	
 for short-circuit protection of the main circuit required 	fuse gL/gG: 160 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current of upstream fuse rated value	160 A
according UL	
operational current at AC according to UL 508/UL 60947-4-1 rated value	180 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	75
active power [hp] at AC at 600 V according to UL 508/UL 60947-4-1 rated value	50
short-time withstand current (SCCR) at 600 V according to UL 508/UL 60947-4-1	10 kA

continuous current of upstream fuse according to UL rate value	ted 200 A
type of fuse according to UL	
Connections	
AWG number as coded connectable conductor cross	
section solid maximum	1
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16185mm²)
 finely stranded with core end processing 	1x (16150mm ²)
stranded	1x (16185mm ²)
type of connectable conductor cross-sections for auxiliar contacts	
• solid	2x (0.75 2.5 mm²), 1x 4 mm²
 finely stranded with core end processing 	2x (0.75 1.5 mm ²), 1x 2.5 mm ²
• 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
• for auxiliary contacts Mechanical Design	
	400
height	169 mm
width	112 mm
depth	94 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 	No
rail mounting	No
net weight	2 048 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
• maximum	55 °C
Approvals Certificates	
General Product Approval	
CE UK Confir EG-Konf.	firmation Miscellaneous
General Product Ap- proval Test Certificates Marine / S	Shipping other Environment
Type Test Certific- ates/Test Report	ovd's Confirmation Miscellaneous EPD
Environment	
Environmental Con- firmations firmations	

Further information

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=3LD2330-0TK13

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2330-0TK13

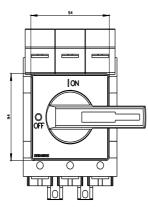
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2330-0TK13

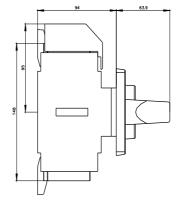
CAx-Online-Generator

http://www.siemens.com/cax

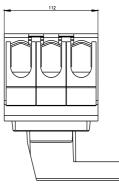
Tender specifications

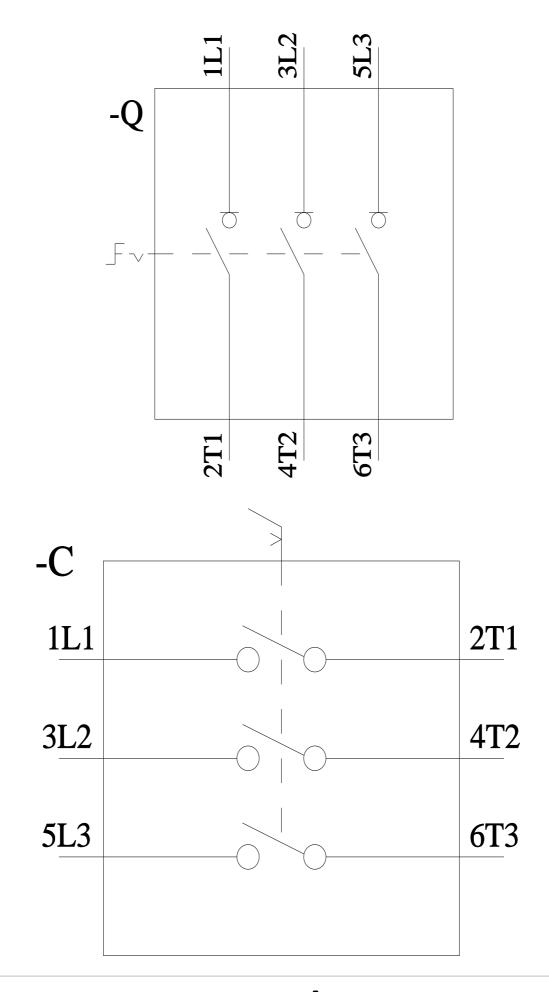
http://www.siemens.com/specifications











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