SIEMENS

Data sheet 3LD2330-0TK11



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

product brand name product designation design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive design of handle type of the driving mechanism / motor drive design of handle size of switch disconnector number of poles size of switch disconnector size of switch disconnector at AC-23 A/ at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value experating voltage at AC / trated value for trated value operating frequency / rated value experating frequency / rated value experational current experational current / rated value flexible fle	Model	
design of the product display version / for switch position indicator manual operation type of switch design of the actuating element design of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive Concrat 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 Voltage insulation voltage / rated value • maximum frequency / rated value • maximum 60 V poperating frequency / rated value • minimum • maximum 60 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 operational current / rated value operational current / rated value operational current / rated value • at 4C / C / rated value operational current / rated value operational current / rated value • at 4C / C / rated value • at 4C / rated value of the current / at AC / in operational current / rated value • at 45 °C / rated value	product brand name	SENTRON
display version / for switch position indicator manual operation type of switch DIN-rail mounting selector switch black design of the actuating element black design of handle knob-operated mechanism, black 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) / operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating frequency / rated value • at AC / rated value • minimum • maximum foo Hz Protection class IP protection class IP protection class IP IP40 protection class IP40 I	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, black 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 degree of pollution 3 Voltage insulation voltage / rated value operating voltage at AC / rated value minimum ominimum o	design of the product	Main switch
design of the actuating element black color / of the actuating element black color / of the actuating element black knob-operated mechanism, black type of the driving mechanism / motor drive No Ceneral technical data number of poles 3 size of switch disconnector 5 mechanical service life (switching cycles) / typical 100 000 electrical endurance (switching 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 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 690 V operatin		1 ON - 0 OFF
color / of the actuating element design of handle knob-operated mechanism, black type of the driving mechanism / motor drive Ceneral 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 / at 690 V operating frequency / maximum degree of pollution 3 Voltage insulation voltage / rated value operating voltage e at AC / rated value operating frequency / rated value • minimum operating frequency / rated value • minimum fool Hz 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 160 A operational current operational current / rated value operational current operational current / rated value	type of switch	DIN-rail mounting
design of handle knob-operated mechanism, black type of the driving mechanism / motor drive No General technical data number of poles 3 size of switch disconnector 5 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 8 kV operating frequency / rated value 690 V operating frequency / rated value 690 V operating resistance / rated value 690 V operating voltage • at AC / rated value 690 V operating frequency / rated value 60 Hz Protection class IP 1 IP40 protection class IP 1 IP40 protection class IP 1 IP40 Dissipation power loss [W] / for rated value of the current / at AC / in hot operating state / per pole Current operational current / rated value 160 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 5 mechanical service life (switching cycles) / typical electrical endurance (switching cycles) • at AC-23 A / at 690 V operating frequency / maximum degree of pollution Voltage insulation voltage / rated value surge voltage resistance / rated value operating frequency / rated value • at AC / rated value • minimum operating frequency / rated value • minimum	color / of the actuating element	black
Seneral technical data number of poles 3	design of handle	knob-operated mechanism, black
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 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	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 50 1/h degree of pollution 3 Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 9 e at AC / rated value 9 operating frequency / rated value 9 operating frequency / rated value 9 operating frequency / rated value 9 minimum 50 Hz 9 maximum 60 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 160 A operational current • at 40 °C / rated value 160 A • at 45 °C / rated value 160 A	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 surge voltage resistance / rated value operating frequency / rated value • at AC / rated value operating frequency / rated value • minimum outpated in the front 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 160 A 600 V	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/ 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 160 A operational current • at 40 °C / rated value • at 45 °C / rated value 160 A	size of switch disconnector	5
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 minimum omaximum foo 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 600 V 690 V	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 IP protection class IP 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 • at 40 °C / rated value • at 45 °C / rated value 160 A • at 45 °C / rated value 160 A	electrical endurance (switching cycles)	
degree of pollution Voltage insulation voltage / rated value 690 V surge voltage resistance / rated value 8 kV operating voltage • at AC / rated value 690 V operating frequency / rated value • minimum 50 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 • at 40 °C / rated value • at 45 °C / rated value 160 A • at 45 °C / rated value 160 A	• at AC-23 A / at 690 V	6 000
insulation voltage / rated value 690 V surge voltage resistance / rated value 8 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 160 A operational current • at 40 °C / rated value 160 A • at 45 °C / rated value 160 A	operating frequency / maximum	50 1/h
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 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 160 A operational current • at 40 °C / rated value 160 A • at 45 °C / rated value 160 A	degree of pollution	3
surge voltage resistance / rated value operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 Hz • maximum Protection class protection class IP protection class IP	Voltage	
operating voltage • at AC / rated value operating frequency / rated value • minimum • maximum 50 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 45 °C / rated value 160 A operational current value 160 A	insulation voltage / rated value	690 V
■ at AC / rated value Operating frequency / rated value ● minimum ● maximum On Hz Protection class 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 operational current ● at 40 °C / rated value ● at 45 °C / rated value ● at 45 °C / rated value Operational current Indicate the same and	surge voltage resistance / rated value	8 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 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 160 A	operating frequency / rated value	
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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 160 A • at 45 °C / rated value 160 A	Protection class	
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 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 Current operational current / rated value operational current operational current operational current at 40 °C / rated value at 45 °C / rated value 160 A 160 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 160 A 160 A	Dissipation	
operational current / rated value operational current • at 40 °C / rated value • at 45 °C / rated value 160 A 160 A		36 W
operational current • at 40 °C / rated value • at 45 °C / rated value 160 A 160 A	Current	
 at 40 °C / rated value at 45 °C / rated value 160 A 160 A 	operational current / rated value	160 A
• at 45 °C / rated value 160 A	operational current	
	 at 40 °C / rated value 	160 A
• at 50 °C / rated value 160 A	 at 45 °C / rated value 	160 A
	 at 50 °C / rated value 	160 A

• at 55 °C / rated value	160 A
at AC / rated value	160 A
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 440 V / rated value	160 A
at AC-23 A / at 400 V / rated value	132 A
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
switch disconnector	Yes
EMERGENCY OFF switch	No
safety switch	Yes
 maintenance/repair switch 	Yes
maintenance/repair switch Product details	Yes
· .	Yes Yes
Product details	
Product details product feature / can be locked into OFF position	
Product details product feature / can be locked into OFF position accessories	
Product details product feature / can be locked into OFF position accessories product extension / optional	Yes
Product details product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts	Yes
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 4 0
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 4 0 3
product details product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks	Yes No No 2 4 0
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 4 0 3
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 4 0 3 4 6 mm
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 4 0 3
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No 2 4 0 3 4 6 mm
product details product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum	Yes No No 2 4 0 3 4 6 mm
product details product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse /	Yes No No 2 4 0 3 4 6 mm
product details product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse /	Yes No No 2 4 0 3 4 6 mm
product details product feature / can be locked into OFF position accessories product extension / optional • motor drive • voltage trigger number of connectable NC contacts / for auxiliary contacts / attachable / maximum number of connectable NO contacts / for auxiliary contacts / attachable / maximum number of connectable CO contacts / for auxiliary contacts / attachable / maximum number of bracket locks / maximum number of bracket locks / maximum hasp thickness / of the bracket locks Short circuit conditional short-circuit current / with line-side fuse protection • at 690 V / by gG fuse / rated value let-through current / with closed switch • at 240 V / for combination switch + gG fuse / maximum • at 440 V / for combination switch + gG fuse / maximum • at 690 V / for combination switch + gG fuse /	Yes No No No 2 4 0 3 4 6 mm 50 kA 15 kA
product details product feature / can be locked into OFF position accessories product extension / optional	Yes No No No 2 4 0 3 4 6 mm 50 kA 15 kA
product details product feature / can be locked into OFF position accessories product extension / optional	No No No 2 4 0 3 4 6 mm 50 kA 15 kA 15 kA 15 kA

• 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 / rated value	200 A	
type of fuse / according to UL	RK5	
Connections		
AWG number / as coded connectable conductor cross		
section / solid		
• minimum	1	
type of connectable conductor cross-sections / for copper conductor		
• solid	1x (16185mm²)	
 finely stranded / with core end processing 	1x (16150mm²)	
stranded	1x (16185mm²)	
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	connection terminals	
Mechanical Design		
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	2 040 g	
Environmental conditions		
ambient temperature / during operation		
• minimum ·	-25 °C	
• maximum	55 °C	
ambient temperature / during storage	05.00	
• minimum	-25 °C	
maximum	55 °C	5 1 4 4
General Product Approval		Declaration of Conformity



Confirmation









Declaration of Conformity

Test Certificates

other



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>

Miscellaneous

Environmental Confirmations

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=3LD2330-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2330-0TK11

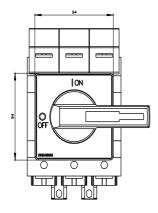
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2330-0TK11

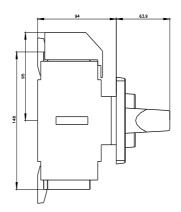
CAx-Online-Generator

http://www.siemens.com/cax

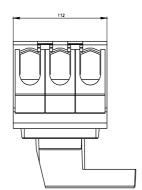
Tender specifications

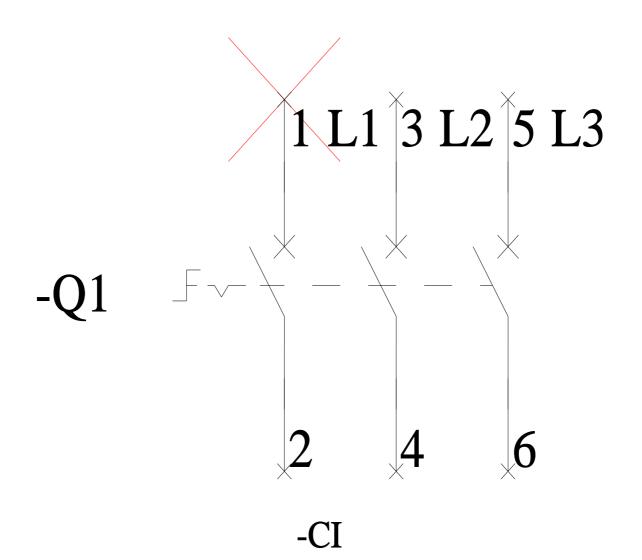
http://www.siemens.com/specifications

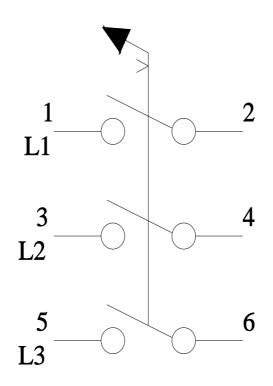












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