SIEMENS

Data sheet 3LD2230-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, installation in distribution boards, knob-operated mechanism, black, handle direct at the switch

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			
design of the actuating element	selector switch			
design of handle	knob-operated mechanism, black			
type of the driving mechanism / motor drive	No			
General technical data				
number of poles	3			
type of device	fixed mounting			
type of switch	DIN-rail mounting			
size of switch disconnector	2			
mechanical service life (switching cycles) / typical	100 000			
electrical endurance (switching cycles)				
• at AC-23 A / at 690 V	6 000			
I2t value / with closed switch / at 690 V / for combination switch + gG fuse / maximum	9 kA2.s			
let-through I2t value / with closed switch / at 440 V / for combination switch + gG fuse / maximum	9 kA2.s			
operating frequency / maximum	50 1/h			
Voltage				
insulation voltage / rated value	690 V			
surge voltage resistance / rated value	6 kV			
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 	1.8 W			
per conductor / typical	2 W			
Current				
operational current				
at 40 °C / rated value	32 A			
• at 45 °C / rated value	32 A			
at 50 °C / rated value	32 A			
• at 55 °C / rated value	32 A			
 at AC / rated value 	32 A			

-t AO 00 A / -t 400 V /t dl	00.4
• at AC-23 A / at 400 V / rated value	22 A
• at AC-21 / at 690 V / rated value	32 A 32 A
 at AC-21 A / at 240 V / rated value at AC-21 A / at 440 V / rated value 	32 A 32 A
	40 A
operational current / of upstream fuse / rated value let-through current / with closed switch	40 A
<u> </u>	4.5 kA
 at 440 V / for combination switch + gG fuse / maximum 	4:5 KA
 at 690 V / for combination switch + gG fuse / maximum permissible 	5 kA
Main circuit	
operating power	
 at AC-23 A / at 240 V / rated value 	6 kW
 at AC-23 A / at 400 V / rated value 	12 kW
 at AC-23 A / at 440 V / rated value 	11.5 kW
 at AC-23 A / at 690 V / rated value 	12 kW
at AC-3 / at 240 V / rated value	5.5 kW
at AC-3 / at 400 V / rated value	10 kW
at AC-3 / at 690 V / rated value	9.5 kW
operational current / rated value	32 A
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
Appearance	
color / of the actuating element	black
Product details	biack
product feature	Voc
can be locked into OFF position number of bracket locks / maximum	Yes 2
hasp thickness / of the bracket locks / minimum	4 mm
hasp thickness / of the bracket locks / maximum product extension / optional	6 mm
motor drive	No
voltage trigger Chart significant	No
Short circuit conditional short-circuit current / with line-side fuse	
protection ● at 690 V / by gG fuse / rated value	50 kA
according UL	
operational current / at AC / according to UL 508/UL	32 A
60947-4-1 / rated value	
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	20
active power [hp] / at AC / at 600 V / according to UL 508/UL 60947-4-1 / rated value	20
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 /	80 A

and and control	
rated value	DV6
type of fuse / according to UL	RK5
Number	
number of connectable NC contacts / for auxiliary contacts / attachable / maximum	2
number of connectable NO contacts / for auxiliary contacts / attachable / maximum	4
number of connectable CO contacts / for auxiliary contacts / attachable / maximum	0
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 	box terminal
for auxiliary contacts	connection terminals
Requirements	
design of the fuse link	
 for short-circuit protection of the main circuit / required 	fuse gL/gG: 40 A
 for short-circuit protection of the auxiliary switch / required 	fuse gL/gG: 10 A
Mechanical Design	
height	55 mm
width	53 mm
depth	91 mm
fastening method	Built-in unit fixed-mounted version
fastening method	
 4-hole front mounting 	No
 front mounting with central attachment 	No
rail mounting	Yes
net weight	166 g
Environmental conditions	
ambient temperature / during operation	
• minimum	-25 °C
maximum	55 °C
ambient temperature / during storage / minimum	-25 °C
General Product Approval	



Confirmation







Miscellaneous

General Product Approval Declaration of Conformity	Test Certificates	Marine / Shipping	other	
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other

Environmental Confirmations

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=3LD2230-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2230-0TK11

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2230-0TK11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications

