SIEMENS

Data sheet

3LD2250-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 32 A, Operating power / at AC-23 A at 400 V: 11.5 kW, front-mounted, knob-operated mechanism, black, central mounting 22.5 mm of the handle

product brand name SENTRON product designation Switch disconnector design of the product Main switch dilptay version for switch position indicator manual operation 10N - 0 OFF type of switch front mounted design of the actuating element black color of the actuating element black design of the driving mechanism motor drive No Cohoral technical data	Model				
design of the product Main switch design of the product 1 ON - 0 OFF type of switch front mounted design of the actuating element selector switch color of the actuating element black design of handle knob-operated mechanism, black design of handle knob-operated mechanism, black fype of the driving mechanism motor drive No Control tochnical data	product brand name	SENTRON			
display version for switch position indicator manual operation 1 ON - 0 OFF type of switch front mounted design of the actuating element black design of handle knob-operated mechanism, black type of the driving mechanism motor drive No Ceneral technical data number of poles size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 electrical endurance (operating cycles) 6 eta AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 6 kV operating reguency 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 va	product designation	Switch disconnector			
operation front mounted design of the actuating element black color of the actuating element black design of handle knob-operated mechanism, black type of the driving mechanism motor drive No General technical data	design of the product	Main switch			
design of the actuating element selector switch color of the actuating element black design of handle knob-operated mechanism, black type of the driving mechanism motor drive No number of poles 3 size of switch disconnector 2 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 690 V surge voltage rated value 690 V operating frequency maximum 60 V operating frequency maximum 60 V operating roltage 690 V surge voltage rated value 690 V operating frequency maximum 60 Hz operating frequency maximum 60 Hz operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection kEMA rating 1, 3R, 4X, 12 protection class IP IP65 Dissipation 1.8 W operati		1 ON - 0 OFF			
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design of handle knob-operated mechanism, black type of the driving mechanism motor drive No General technical data	design of the actuating element	selector switch			
type of the driving mechanism motor drive No Ceneral technical data	color of the actuating element	black			
General technical data number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage	design of handle	knob-operated mechanism, black			
number of poles 3 size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value surge voltage resistance rated value 690 V operating voltage 6 • at AC rated value 690 V operating frequency maximum 50 Hz operating voltage 60 V operating frequency rated value 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP IP65 degree of pole 1.8 W operating state per pole 1.8 W operating state per pole 32 A dain circuit 32 A operational current 32 A	type of the driving mechanism motor drive	No			
size of switch disconnector 2 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 • at AC-21 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating voltage 6 • at AC rated value 690 V operating requency rated value 690 V operating frequency rated value 100 kz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP IP65 Dissipation IP65 Dissipation 1.8 W operational current 1.8 W operational current	General technical data				
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electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V surge voltage resistance rated value 690 V operating frequency maximum 600 V surge voltage resistance rated value 690 V operating voltage 690 V • at AC rated value 690 V operating frequency rated value 690 V • maximum 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.8 W operating state per pole 32 A Main circuit 32 A • at AC-21 at 240 V rated value 32 A • at AC-21 At 240 V rated value 32 A	size of switch disconnector	2			
• at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage 600 V insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 kV operating reguency rated value 690 V operating frequency rated value 600 Hz Protection class IP 1965 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.8 W operating state per pole 32 A Main circuit 32 A operational current 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 400 V rated value 32 A <th>mechanical service life (operating cycles) typical</th> <th>100 000</th>	mechanical service life (operating cycles) typical	100 000			
operating frequency maximum50 1/hdegree of pollution3Voltageinsulation voltage rated value690 Vsurge voltage resistance rated value6 KVoperating voltage6 kVoperating requency rated value690 Voperating frequency rated value600 Voperating frequency rated value60 Voperating frequency rated value60 HzProtection class1.3R, 4X, 12protection class IPIP65degree of protection NEMA rating1.3R, 4X, 12protection class IP on the frontIP65Dissipation1.8 Woperating state per pole1.8 Woperating state per pole32 Aat AC-21 at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A	electrical endurance (operating cycles)				
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Voltage insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 kV • at AC rated value 690 V operating frequency rated value 690 V • minimum 50 Hz • maximum 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 1.8 W operating state per pole 32 A Main circuit 32 A operating state value 32 A • at AC-21 At 240 V rated value 32 A • at AC-21 At 400 V rated value 32 A	operating frequency maximum	50 1/h			
insulation voltage rated value 690 V surge voltage resistance rated value 6 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 grotection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 Main circuit 0 operating state per pole 1.8 W Main circuit 32 A • at AC-21 at 690 V rated value 32 A • at AC-21 A at 240 V rated value 32 A	degree of pollution	3			
surge voltage resistance rated value 6 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 grotection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 Main circuit 1.8 W operating state per pole 1.8 W Main circuit 32 A • at AC-21 at 690 V rated value 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 400 V rated value 32 A	Voltage				
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• at AC rated value 690 V operating frequency rated value 50 Hz • minimum 50 Hz • maximum 60 Hz Protection class Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 Øver loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Øverational current 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 400 V rated value 32 A	surge voltage resistance rated value	6 kV			
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• minimum50 Hz• maximum60 HzProtection classIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65DissipationIP65Main circuit1.8 Woperating state per pole32 A• at AC-21 at 690 V rated value32 A• at AC-21 A at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A	at AC rated value	690 V			
• maximum 60 Hz Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Main circuit 1.8 W operational current 32 A • at AC-21 at 690 V rated value 32 A • at AC-21 A at 240 V rated value 32 A	operating frequency rated value				
Protection class IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Main circuit operational current • at AC-21 at 690 V rated value 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 400 V rated value 32 A	• minimum	50 Hz			
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protection class IP on the front IP65 Dissipation IP65 power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Main circuit Main circuit operational current 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 400 V rated value 32 A • at AC-21 A at 400 V rated value 32 A	protection class IP	IP65			
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Main circuit	degree of protection NEMA rating	1, 3R, 4X, 12			
power loss [W] for rated value of the current at AC in hot operating state per pole 1.8 W Main circuit	protection class IP on the front	IP65			
Operating state per pole Main circuit operational current • at AC-21 at 690 V rated value 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 240 V rated value 32 A • at AC-21 A at 400 V rated value 32 A	Dissipation				
operational current• at AC-21 at 690 V rated value32 A• at AC-21 A at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A		1.8 W			
• at AC-21 at 690 V rated value32 A• at AC-21 A at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A	Main circuit				
• at AC-21 A at 240 V rated value32 A• at AC-21 A at 400 V rated value32 A	operational current				
• at AC-21 A at 400 V rated value 32 A	• at AC-21 at 690 V rated value	32 A			
	• at AC-21 A at 240 V rated value	32 A			
• at AC-21 A at 440 V rated value 32 A	• at AC-21 A at 400 V rated value	32 A			
	• at AC-21 A at 440 V rated value	32 A			

at AC-23 A at 400 V rated value	22 A
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
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	No
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 attachable maximum	2
number of connectable NO contacts for auxiliary contacts attachable maximum	2
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	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
I2t value with closed switch	
	0 440 -
 at 240 V for combination switch + gG fuse maximum 	9 kA2.s
 at 240 V for combination switch + gG fuse maximum at 440 V for combination switch + gG fuse maximum 	9 kA2.s 9 kA2.s
• at 440 V for combination switch + gG fuse maximum	9 kA2.s
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum 	9 kA2.s
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required 	9 kA2.s 9 kA2.s fuse gL/gG: 40 A fuse gL/gG: 10 A
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value 	9 kA2.s 9 kA2.s fuse gL/gG: 40 A
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL 	9 kA2.s 9 kA2.s fuse gL/gG: 40 A fuse gL/gG: 10 A 40 A
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value 	9 kA2.s 9 kA2.s fuse gL/gG: 40 A fuse gL/gG: 10 A 40 A 32 A
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value 	9 kA2.s 9 kA2.s fuse gL/gG: 40 A fuse gL/gG: 10 A 40 A 32 A 600 V
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz 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 	9 kA2.s 9 kA2.s fuse gL/gG: 40 A fuse gL/gG: 10 A 40 A 32 A 600 V 20
 at 440 V for combination switch + gG fuse maximum at 690 V for combination switch + gG fuse maximum design of the fuse link for short-circuit protection of the main circuit required for short-circuit protection of the auxiliary switch required operational current of upstream fuse rated value according UL operational current at AC according to UL 508/UL 60947-4-1 rated value operating voltage at AC at 50/60 Hz according to UL 508/UL 60947-4-1 rated value active power [hp] at AC at 480 V according to UL 508/UL 	9 kA2.s 9 kA2.s fuse gL/gG: 40 A fuse gL/gG: 10 A 40 A 32 A 600 V

UL 508/UL 60947-4-1						
continuous current of	upstream fuse accordir	ig to UL rated	80 A			
value			DICE			
type of fuse according Connections	I to UL		RK5			
	d connectable conducto	or cross	_			
section solid maximum		0.033				
•			8			
•			14			
type of connectable co conductor	onductor cross-sections	for copper				
 solid 			1x (1,516mm²)			
-	ith core end processing		1x (1,510mm²)			
stranded		e	1x (1,	516mm²)		
type of connectable co contacts	onductor cross-sections	s for auxiliary				
 solid 				75 2.5 mm²), 1x 4 ı		
-	ith core end processing		-	75 1.5 mm²), 1x 2.		
stranded			2x (0.	75 2.5 mm²), 1x 4 ı	nm²	
type of electrical connect • for main current c			hoy to	erminal		
 for main current of for auxiliary contained 				erminal ection terminals		
Mechanical Design			conne			
height			71 mn	n		
width			49 mn			
depth			109.5	mm		
type of device			fixed r	nounting		
fastening method			Built-in unit fixed-mounted version			
fastening method						
 4-hole front mour 	nting		No			
	th central attachment		Yes			
rail mounting			No			
net weight			172 g			
Environmental condition			_	_		
ambient temperature o	during operation		25 °C	、		
minimummaximum			-25 °C 55 °C			
ambient temperature d	luring storage		55 0			
minimum	annig Storage		-25 °C	>		
maximum			55 °C			
Approvals Certificates						
General Product Appr	oval					
UK	CE	Confirmation	1	ዉ	DYE	Miscellaneous
CA	EG-Konf.			UL UL	VDE	
General Product Ap- proval	Test Certificates	Marine / Shippin	ng	other		Environment
EHC	Type Test Certific- ates/Test Report	Llovd's Kegister us		<u>Confirmation</u>	<u>Miscellaneous</u>	EPD
Environment						
Environmental Con- firmations	Environmental Con- 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=3LD2250-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2250-0TK11

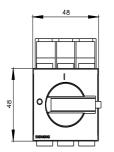
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2250-0TK11

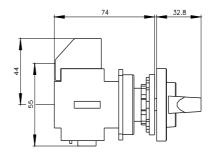
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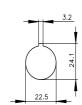
http://www.siemens.com/cax

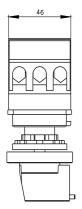
Tender specifications

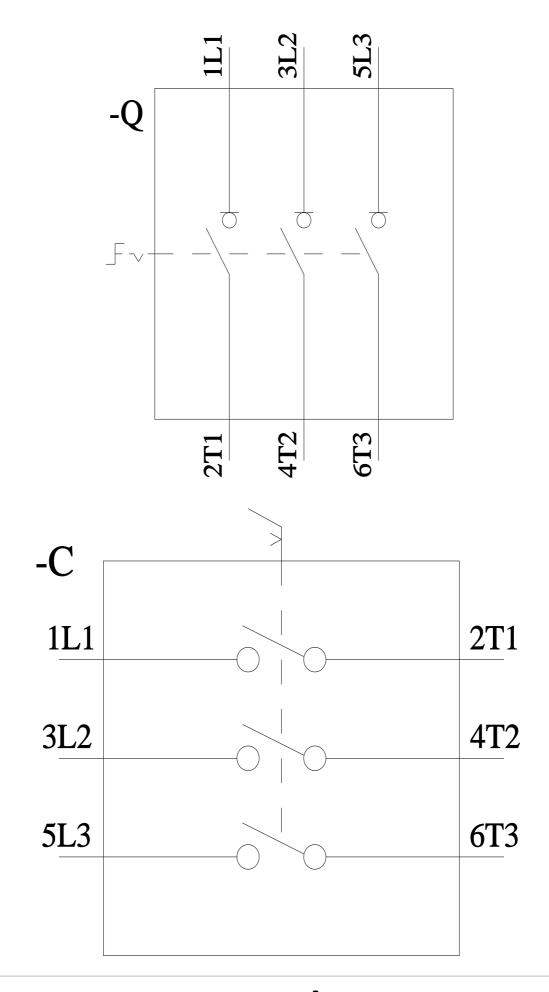
http://www.siemens.com/specifications











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