SIEMENS

Data sheet

3LD2022-0TK11



SENTRON, Switch disconnector 3LD, main switch, 3-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, knob-operated mechanism, black, 4-hole mounting of the handle

product brand name SENTRON product designation Switch disconnector display version for switch position indicator manual operation 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 type of the driving mechanism motor drive No Star of switch disconnector 1 number of poles 3 size of switch disconnector 1 etherical endurance (operating cycles) (ypical 100 000 electrical endurance (operating cycles) 6000 operating frequency maximum 50 1/h degree of poliution 3 vertage editor voltage rated value operating voltage 600 V surge voltage resistance rated value 690 V operating voltage 600 V east AC rated value	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 design of the actuating element black size of switch for attractor number of poles 3 size of switch disconnector 1 mechanical service life (operating cycles) typical 100 000 eleictrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage eleV operating reguency rated value 680 V operating frequency rated value 690 V operating frequency rated value </td <td>product brand name</td> <td>SENTRON</td>	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 selector switch color of the actuating element black the diving mechanism motor drive No Cenaral tachnical data number of poles size of switch disconnector 1 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltago 6 000 surge voltage resistance rated value 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltago 6 000 V operating frequency maximum 60 V operating frequency maximum 60 V operating frequency rated value 690 V operating frequency rated value 600 V operating frequency rated value 690 V operating frequency rated value 600 V <	product designation	Switch disconnector
type of switch front mounted design of the actuating element selector switch color of the actuating element black design of the actuating element black design of the actuating element black design of the actuating element black General technical data number of poles number of poles 3 size of switch disconnector 1 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 relevalue operating voltage 600 V surge voltage resistance rated value 690 V operating voltage 690 V • at AC rated value 690 V operating voltage 60 Hz	design of the product	Main switch
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color of the actuating element black design of handle knob-operated mechanism, black Vype of the driving mechanism motor drive No General technical data number of poles number of poles 3 size of switch disconnector 1 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 resistance rated value eit AC rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 70 Hz eit AC 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 on the front IP65	type of switch	front mounted
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 1 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) 6 000 • at AC-23 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 operating trequency maximum 60 V operating voltage 61 V • at AC rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating requency rated value 690 V operating frequency rated value 60 Hz Protection class IP IP65 gene of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W	design of handle	knob-operated mechanism, black
number of poles 3 size of switch disconnector 1 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 600 V surge voltage resistance rated value 690 V operating frequency maximum 60 V surge voltage resistance rated value 690 V operating totage 61 V operating requency rated value 690 V operating frequency rated value 690 V operating requency rated value 690 V operating requency rated value 690 V operating frequency rated value 600 V operating frequency rated value 60 Hz Protection class IP IP65 Disipation 0.5 W operational current 0.5 W op	type of the driving mechanism motor drive	No
size of switch disconnector 1 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 990 V insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage 6 • at AC rated value 690 V operating frequency rated value 690 V operating requency rated value 690 V operating requency rated value 690 V operating frequency rated value 690 V operating frequency rated value 690 V operating requency rated value 690 V operating frequency rated value 10 R • minimum 60 Hz Protection class IP IP65 degree of protection class IP on the front IP65 Dissipation	General technical data	
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 690 V insulation voltage rated value 690 V operating frequency maximum 600 V surge voltage resistance rated value 690 V operating voltage 64V operating voltage resistance rated value 690 V operating requency rated value 690 V operating frequency rated value 10 Hz protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 D	number of poles	3
electrical endurance (operating cycles) 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 690 V operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V surge voltage resistance 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 on the front IP65 Dissipation 0.5 W operational current 0.5 W operational current 0.5 W ot AC-21 at 690 V rated value <td< td=""><td>size of switch disconnector</td><td>1</td></td<>	size of switch disconnector	1
• at AC-23 A at 690 V 6 000 operating frequency maximum 50 1/h degree of pollution 3 Voltage insulation voltage rated value insulation voltage resistance rated value 690 V operating voltage 6 kV operating voltage 690 V operating voltage 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W operating state per pole 0.5 W Main circuit 0.5 W operational current 16 A • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value	mechanical service life (operating cycles) typical	100 000
operating frequency maximum 50 1/h degree of pollution 3 Voltage 690 V insulation voltage rated value 690 V surge voltage resistance rated value 6 kV operating voltage resistance rated value 6 kV operating voltage resistance rated value 690 V operating voltage 690 V operating frequency rated value 60 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W operating state per pole 0.5 W Main circuit 0.5 W operational current 16 A • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V r	electrical endurance (operating cycles)	
degree of pollution 3 Voltage 690 V surge voltage resistance rated value 690 V operating voltage 6 kV operating voltage 690 V operating voltage 690 V operating frequency rated value 600 Hz Protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W power loss [W] for rated value of the current at AC in hot operating state per pole 0.5 W Main circuit 0 operational current 16 A • at AC-21 A to 20 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21	• at AC-23 A at 690 V	6 000
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 0.5 W operating state per pole 0.5 W Main circuit 0 operational current 16 A • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 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 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W operating state per pole 0.5 W Main circuit 16 A • at AC-21 at 690 V rated value 16 A • at AC-21 At 440 V rated value 16 A • at AC-21 At 440 V rated value 16 A	degree of pollution	3
surge voltage resistance rated value 6 kV operating voltage 690 V operating frequency rated value 690 V operating frequency rated value 60 Hz maximum 60 Hz Protection class 1, 3R, 4X, 12 protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W operating state per pole 0.5 W operating state per pole 16 A e at AC-21 A at 240 V rated value 16 A e at AC-21 A at 440 V rated value 16 A e at AC-21 A at 440 V rated value 16 A	Voltage	
operating voltage690 Voperating frequency rated value690 Voperating frequency rated value50 Hz• minimum60 HzProtection classprotection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65Dissipationpower loss [W] for rated value of the current at AC in hot operating state per poleMain circuit0.5 Woperational current16 A• at AC-21 at 690 V rated value16 A• at AC-21 A at 400 V rated value16 A• at AC-21 A at 440 V rated value16 A• at AC-21 A at 440 V rated value16 A	insulation voltage rated value	690 V
• at AC rated value 690 V operating frequency rated value 50 Hz • minimum 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 0.5 W operating state per pole 0.5 W Main circuit 0.5 W operational current 16 A • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	surge voltage resistance rated value	6 kV
operating frequency rated value50 Hz• minimum50 Hz• maximum60 HzProtection classprotection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65power loss [W] for rated value of the current at AC in hot operating state per pole0.5 WMain circuit0.5 Woperational current16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 440 V rated value16 A• at AC-21 A at 440 V rated value16 A• at AC-21 A at 440 V rated value16 A	operating voltage	
• minimum50 Hz• maximum60 HzProtection classIP65protection class IPIP65degree of protection NEMA rating1, 3R, 4X, 12protection class IP on the frontIP65DissipationIP65DissipationIP65Main circuit0.5 Woperating state per pole16 A• at AC-21 A at 400 V rated value16 A• at AC-21 A at 440 V rated value16 A• at AC-21 A at 440 V rated value16 A• at AC-21 A at 440 V rated value16 A	 at AC rated value 	690 V
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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 0.5 W Main circuit operational current • at AC-21 at 690 V rated value 16 A • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	• minimum	50 Hz
protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W power loss [W] for rated value of the current at AC in hot operating state per pole 0.5 W Main circuit 0.5 W operational current • at AC-21 at 690 V rated value • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	• maximum	60 Hz
degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation 0.5 W power loss [W] for rated value of the current at AC in hot operating state per pole 0.5 W Main circuit 0.5 W operational current 16 A • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	Protection class	
protection class IP on the front IP65 Dissipation 0.5 W power loss [W] for rated value of the current at AC in hot operating state per pole 0.5 W Main circuit 0.5 W operational current 0.4 AC-21 at 690 V rated value • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 440 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	protection class IP	IP65
Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole 0.5 W Main circuit 0.5 W operational current 0.5 W • at AC-21 at 690 V rated value 16 A • at AC-21 A at 240 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 400 V rated value 16 A • at AC-21 A at 440 V rated value 16 A	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 0.5 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 • 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 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	Dissipation	
operational current• at AC-21 at 690 V rated value16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A• at AC-21 A at 440 V rated value16 A		0.5 W
• at AC-21 at 690 V rated value16 A• at AC-21 A at 240 V rated value16 A• at AC-21 A at 400 V rated value16 A• at AC-21 A at 440 V rated value16 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 16 A 16 A 	operational current	
 at AC-21 A at 400 V rated value at AC-21 A at 440 V rated value 16 A 16 A 	• at AC-21 at 690 V rated value	16 A
• at AC-21 A at 440 V rated value 16 A	• at AC-21 A at 240 V rated value	16 A
	• at AC-21 A at 400 V rated value	16 A
• at AC-23 A at 400 V rated value 16 A	• at AC-21 A at 440 V rated value	16 A
	• at AC-23 A at 400 V rated value	16 A

operating power	4.194
at AC-23 A at 240 V rated value	4 kW
• at AC-23 A at 400 V rated value	8 kW
 at AC-23 A at 440 V rated value 	7.5 kW
 at AC-23 A at 690 V rated value 	8 kW
 at AC-3 at 240 V rated value 	3 kW
 at AC-3 at 400 V rated value 	6 kW
• at AC-3 at 690 V rated value	5.5 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
Suitability	
suitability for use	
main switch	Yes
switch disconnector	Yes
EMERGENCY OFF switch	No
 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
	No
voltage trigger	3
number of connectable NC contacts for auxiliary contacts attachable maximum	3
number of connectable NO contacts for auxiliary contacts attachable maximum	3
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 kA
 at 440 V for combination switch + gG fuse maximum 	3 kA
 at 690 V for combination switch + gG fuse maximum permissible 	3 kA
I2t value with closed switch	
 at 240 V for combination switch + gG fuse maximum 	2.5 kA2.s
• at 440 V for combination switch + gG fuse maximum	2.5 kA2.s
• at 690 V for combination switch + gG fuse maximum	3 kA2.s
design of the fuse link	
for short-circuit protection of the main circuit required	fuse gL/gG: 20 A
 for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 10 A
operational current of upstream fuse rated value	20 A
according UL	
	16 Δ
operational current at AC according to UL 508/UL 60947-4-1 rated value	16 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	7.5
active power [hp] at AC at 600 V according to UL 508/UL 60947- 4-1 rated value	10
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 conducto	or cross section				
solid maximum					
•		10	10		
•		18	18		
type of connectable conductor cross-sections conductor	for copper				
• solid		1x (16n	nm²)		
 finely stranded with core end processin 	g	1x (14n	1x (14mm²)		
 stranded 		1x (16mm ²)			
type of connectable conductor cross-sections contacts	for auxiliary				
• solid		lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)			
 finely stranded with core end processin 	g	lateral au 2,5mm²	lateral auxiliary switch 2x (0,75 1,5mm ²), 1x 2,5mm ² ; front auxiliary switch 1x		
• stranded		lateral au (0,75 2		75 2,5mm²), 1x 4mm²; fro	ont auxiliary switch 1x
type of electrical connection					
for main current circuit		box termi	nal		
 for auxiliary contacts 		connectio	on terminals		
Mechanical Design					
height		66 mm			
width		49 mm			
depth		89.5 mm			
type of device		fixed mou	untina		
fastening method			nit fixed-mounted ve	ersion	
fastening method					
 4-hole front mounting 		Yes			
 front mounting with central attachment 		No			
• rail mounting		No			
net weight		164 g			
Environmental conditions		lorg			
ambient temperature during operation					
minimum		-25 °C			
• maximum		-23°C 55 °C			
		55 0			
ambient temperature during storageminimum		-25 °C			
• maximum		-25°C 55 °C			
Approvals Certificates		55 C	_		_
		_			
General Product Approval					
	Confirmatio	n		•	^
CE UK	oominidado		(m)	(III)	
			<u>u</u>		æ
EG-Konf.			ccc	UL	VDE
General Product Approval	Marine / Shipp	ing		other	
	Å.Ť.		Llovds	<u>Miscellaneous</u>	Confirmation
EAC	DNV		Kegister		
E11E	DNV		LRS		
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=3LD2022-0TK11

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2022-0TK11

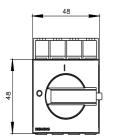
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2022-0TK11

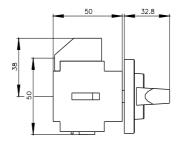
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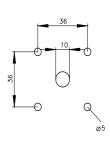
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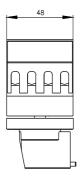
Tender specifications

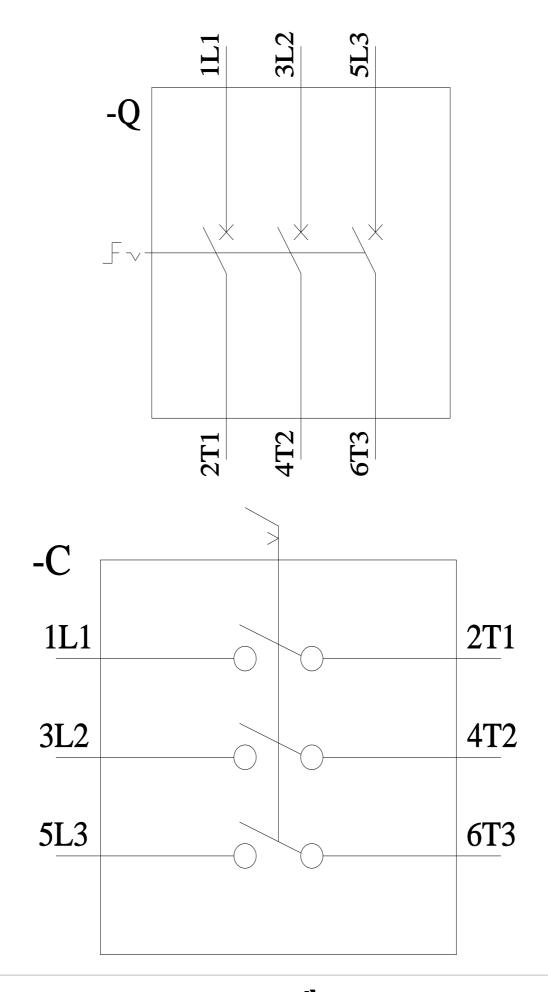
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 CCP2-2-30CC
 CCP2-1-DCM

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 CCP2-3-30CF
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 CCP2-1-30CC
 CCP2-3-60CF
 CCP2SL-3-30CF