SIEMENS

Data sheet 3LD2022-1TL11

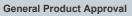


SENTRON, Switch disconnector 3LD, main switch, 4-pole, lu: 16 A, Operating power / at AC-23 A at 400 V: 7.5 kW, front-mounted, knob-operated mechanism, black, 4-hole mounting of the handle

product brand name product designation Switch disconnector design of the product display version for switch position indicator manual operation 1 ON - 0 OFF 1 O	Model	
product designation design of the product design of the product design of the product yee of switch front mounted design of the actuating element design of the actuating element black design of handle knob-operated mechanism, black yee of the driving mechanism motor drive No Coneral technical data number of poles size of switch disconnector mechanical service life (operating cycles) lypical electrical endurance (operating cycles) at AC-23 A at 890 V operating frequency maximum degree of pollution 3 Voltago insulation voltage rated value at AC rated value operating requency rated value minimum at AC rated value operating frequency rated value minimum at AC rated value minimum found the control of the current at AC in hot operating lated value at AC-21 at 690 V rated value at AC-21 at 690 V rated value at AC-21 at 690 V rated value 1		SENTRON
design of the product display version for switch position indicator manual operation type of switch front mounted design of the actuating element color 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 mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-22 A at 690 V operating frequency maximum degree of pollution 3 Voltage insulation voltage rated value • minimum • maximum 50 Hz Protection class IP degree of protection NEMA rating protection class IP of the front Dissipation Dissipation Dissipation Dissipation **A AC-21 at 690 V rated value • at AC-21 at 440 V rated value • at AC-21 at 440 V rated value • at AC-21 at 440 V rated value • at AC-21 at 440 V rated value	·	
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type of switch front mounted selector switch selector switch solor of the actuating element selector switch black design of the actuating element black knob-operated mechanism, black lype of the driving mechanism motor drive No Mocoral technical data Mounter of poles 4 size of switch disconnector 1 mechanical service life (operating cycles) typical 100 000 electrical endurance (operating cycles) was at AC-23 A at 690 V 6000 operating frequency maximum 50 1/h degree of pollution 3 Woltage rated value 690 V surge voltage resistance rated value 690 V surge voltage resistance rated value 690 V operating frequency rated value 690 Hz Protection class IP 695 degree of protection class IP 1965 operating 50 Hz operating 51 Hz operation 51 Hz operation 52 Hz operating 51 Hz operation 52 Hz o		
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type of the driving mechanism motor drive Ceneral technical data number of poles size of switch disconnector mechanical service life (operating cycles) typical electrical endurance (operating cycles) • at AC-23 A at 690 V operating frequency maximum operating frequency maximum degree of pollution 3 Voltage insulation voltage rated value surge voltage resistance rated value operating voltage • at AC rated value operating frequency rated value innimum operating frequency rated value operating frequency rated value innimum of the control of the current of the curre		
General technical data 4 number of poles 4 size of switch disconnector 1 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 690 V surge voltage resistance rated value 6 kV operating voltage • at AC rated value • naximum 60 Hz Protection class IP protection class IP IP65 degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation Dower loss [W] for rated value of the current at AC in hot operating state per pole Main circuit • at AC-21 at 80 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 400 V rated value 16 A • at AC-21 A at 400 V rated value		
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surge voltage resistance rated value operating voltage • at AC rated value operating frequency rated value • minimum • maximum 50 Hz • maximum 50 Hz Protection class protection class IP degree of protection NEMA rating protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot 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 440 V rated value	Voltage	
operating voltage • at AC rated value operating frequency rated value • minimum • maximum 50 Hz • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot 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 400 V rated value • at AC-21 A at 440 V rated value	insulation voltage rated value	
• at AC rated value operating frequency rated value • minimum	surge voltage resistance rated value	6 kV
operating frequency rated value • minimum • maximum 60 Hz Protection class protection class IP degree of protection NEMA rating protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot 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 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 • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	operating voltage	
 minimum maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot 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 440 V rated value 	at AC rated value	690 V
maximum 60 Hz Protection class protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot 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 400 V rated value • at AC-21 A at 440 V rated value	operating frequency rated value	
protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot 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 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	• minimum	50 Hz
protection class IP degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front IP65 Dissipation power loss [W] for rated value of the current at AC in hot 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 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	• maximum	60 Hz
degree of protection NEMA rating 1, 3R, 4X, 12 protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot 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 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	Protection class	
protection class IP on the front Dissipation power loss [W] for rated value of the current at AC in hot 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 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	protection class IP	IP65
Dissipation power loss [W] for rated value of the current at AC in hot 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 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	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 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 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value	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 400 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 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 value • 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 • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value • at AC-21 A at 440 V rated value		0.5 W
 at AC-21 at 690 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 440 V rated value at AC-21 A at 440 V rated value 	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 	• 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	4000
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	Vee
main switchswitch disconnector	Yes Yes
switch disconnector EMERGENCY OFF switch	res No
safety switch	Yes
sarety switch maintenance/repair switch	Yes
• maintenance/repair switch Product details	100
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 	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	
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 conductor cross section solid maximum	
•	10
•	18
type of connectable conductor cross-sections for copper conductor	
• solid	1x (16mm²)
 finely stranded with core end processing 	1x (14mm²)
stranded	1x (16mm²)
type of connectable conductor cross-sections for auxiliary contacts	
• solid	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
• finely stranded with core end processing	lateral auxiliary switch 2x (0,75 1,5mm²), 1x 2,5mm²; front auxiliary switch 1x 2,5mm²
• stranded	lateral auxiliary switch 2x (0,75 2,5mm²), 1x 4mm²; front auxiliary switch 1x (0,75 2,5mm²)
type of electrical connection	
for main current circuit	box terminal
 for auxiliary contacts 	connection terminals
Mechanical Design	
height	66 mm
width	49 mm
depth	89.5 mm
type of device	fixed mounting
fastening method	Built-in unit fixed-mounted version
fastening method	
 4-hole front mounting 	Yes
 front mounting with central attachment 	No
rail mounting	No
net weight	196 g
Environmental conditions	
ambient temperature during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature during storage	
• minimum	-25 °C
	== 00
maximum	55 °C









Confirmation





General Product Approval

Marine / Shipping

other

Environmental Confirmations

Environment

Miscellaneous





Confirmation

Miscellaneous

Environment

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3LD2022-1TL11}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3LD2022-1TL11

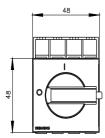
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD2022-1TL11

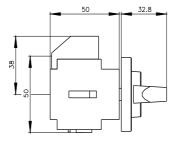
CAx-Online-Generator

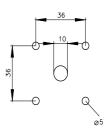
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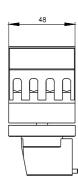
Tender specifications

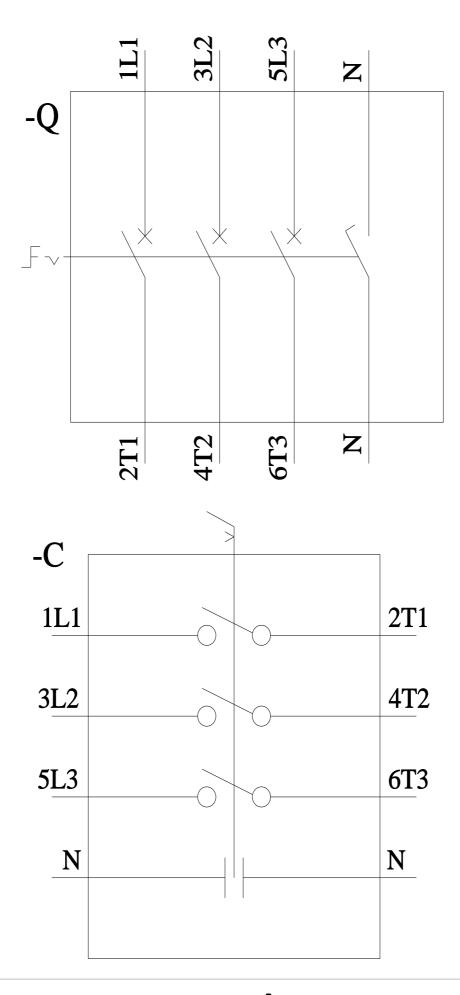
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VKA480N KU440N 75920 75920-05 GS1DDU3 3LD2022-0TK11 3LD2103-0TK51 3LD2203-0TK51 3LD2203-1TL51 3LD2504-0TK51
3LD2514-0TK51 R4H3030FCC MD3304X OT25F3 OT40FT3 OT100F3 OT40F3 OT63F3 KU316N KU325N KU340N KU363N
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CCP2-3-30CC CCP2-3-100CF CCP2-3-200CF CCP2-3-200CF CCP2RL-3-30CC CCP2-1-DCC CCP2-3-60CF CCP2SL-3-30CF