SIEMENS

Data sheet 3LD2250-0TK11



MAIN CONTROL SWITCH 3-POLE IU=32, P/AC-23A AT 400V=11,5KW FRONT MOUNTING CENTRAL-HOLE MOUNTING KNOB BLACK

Figure similar

Model		
product brand name		SENTRON
Product designation		Main and EMERGENCY-STOP switches
Design of the operating mechanism		knob-operated mechanism, black
Type of the driving mechanism / motor drive		No
General technical data		
Number of poles		3
Type of device		fixed mounting
Protection against electrical shock		finger-safe
Mechanical service life (switching cycles) / of the		100 000
main contacts / typical		
Operating frequency / maximum	1/h	50
Voltage		
Insulation voltage / Rated value	V	690
Surge voltage resistance / Rated value	V	6 000
Protection class		
Protection class IP		IP65
Electricity		
Continuous current / Rated value	Α	32
Short-time current resistance (lcw) / at 690 V / limited	Α	640
to 1 s / Rated value		
Main circuit		
Operating frequency		
● initial value	Hz	50

Full-scale value	Hz	60
Operating power		
• at AC-23 A / at 400 V / Rated value	kW	11.5
• at AC-23 A / at 690 V / Rated value	kW	11.5
• at AC-3 / at 400 V / Rated value	kW	9.5
• at AC-3 / at 690 V / Rated value	kW	9.5
Operating voltage		
• with AC / at 50/60 Hz / Rated value	V	690
Operating current / at AC-21 / Rated value	Α	32
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 the auxiliary contacts / with AC / maximum	V	500
Continuous current / of the auxiliary contact / Rated value	А	10
Insulation voltage / of the auxiliary switch / Rated value	V	500
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 / interlock		Yes
Product expansion / optional		
• motor drive		No
 Voltage trigger 		No
Connections		
Connectable conductor cross-section		
• for main contacts		
— single or multi-stranded / minimum	mm²	1.5
— single or multi-stranded / maximum	mm²	16
finely stranded / with core end processing / maximum	mm²	10
— stranded / minimum	mm²	1.5
— stranded / maximum	mm²	16
• for auxiliary contacts		

- single or multi-stranded / maximum		_	
finely stranded / with core end processing / minimum finely stranded / with core end processing / mm² 2.5 maximum stranded / minimum stranded / minimum stranded / maximum Type of connectable conductor cross-section • for main contacts / finely stranded / with core end processing • for auxiliary contacts solid finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts solid finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts solid for auxiliary contacts solid for short-circuit protection of the main circuit / required for short-circuit protection of the main circuit / required for short-circuit protection of the auxiliary switch / required for short-circuit protection of the auxiliary switch / required / for short-circuit protection of the auxiliary switch / required / fuse gL/gG: 40 A / fuse gL/gG: 10 A / fuse gL/gG: 10 A / / fuse gL/gG: 10 A / / fuse gL/gG: 10 A / / / / / / / / / / / / / / / / / /	— single or multi-stranded / minimum	mm²	0.75
minimum — finely stranded / with core end processing / maximum — stranded / minimum — stranded / maximum Type of connectable conductor cross-section • for main contacts / finely stranded / with core end processing • for auxiliary contacts — solid — finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts Pesign of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the auxiliary switch • froshort-circuit protection of the auxiliary switch • front mounting type Mounting type • front mounting • front mounting with 4-hole attachment • Side-by-side mounting • rail mounting • rail mounting • during operation / minimum PC C -25	— single or multi-stranded / maximum	mm²	4
maximum — stranded / minimum ** one of connectable conductor cross-section • for main contacts / finely stranded / with core end processing • for auxiliary contacts — solid — finely stranded / with core end processing **Type of electrical connection • for main current circuit • for auxiliary contacts **Connection terminals **Requirements **Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the auxiliary switch / required **Mechanical Design **Mechanical Design **Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • front mounting with central attachment • Side-by-side mounting • rail mounting • during operation / minimum **C		mm²	0.75
Type of connectable conductor cross-section • for main contacts / finely stranded / with core end processing • for auxiliary contacts — solid — finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts — solid — finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts Requirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height Mechanical Design Height Midth mm 49 Depth Mounting type • front mounting type • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Provironmental conditions Ambient temperature • during operation / minimum "C -25		mm²	2.5
Type of connectable conductor cross-section • for main contacts / finely stranded / with core end processing • for auxiliary contacts — solid — finely stranded / with core end processing Type of electrical connection • for main current circuit connection terminals • for auxiliary contacts Requirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height Width mm 49 Depth mm 109.5 Mounting type • front mounting • front mounting • front mounting • front mounting with 4-hole attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum °C 10 10 10 10 10 10 10 10 10 1	— stranded / minimum	mm²	0.75
• for main contacts / finely stranded / with core end processing • for auxiliary contacts — solid — finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts Connection terminals Requirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height Width Pepth Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum	— stranded / maximum	mm²	4
end processing • for auxiliary contacts — solid — finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts Requirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height mm 71 Width mm 49 Depth Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum °C - 25	Type of connectable conductor cross-section		
solid finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts Cequirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height mm 71 Width mm 49 Depth mm 109.5 Mounting type • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum *C25	-		10
Type of electrical connection • for main current circuit • for auxiliary contacts Cequirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height Muth Depth Mounting type • front mounting • front mounting with 4-hole attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum 2x (0.75 1.5 mm2), 1x 2.5 mm2 connection terminals connection terminals connection terminals connection terminals fuse gL/gG: 40 A fuse gL/gG: 10 A fuse gL/gG: 40 N fu	 for auxiliary contacts 		
Type of electrical connection • for main current circuit • for auxiliary contacts Requirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height mm 71 Width mm 49 Depth mn 109.5 Mounting type • front mounting • front mounting • front mounting with 4-hole attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum ° C -25	— solid		50
• for main current circuit • for auxiliary contacts Requirements Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height	— finely stranded / with core end processing		2x (0.75 1.5 mm2), 1x 2.5 mm2
for auxiliary contacts Requirements Design of the fuse link for short-circuit protection of the main circuit / required for short-circuit protection of the auxiliary switch / required Mechanical Design Height	Type of electrical connection		
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Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height mm 71 Width mm 49 Depth Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Final Mounting types • rail mounting • rail mounting • during operation / minimum CC -25	for auxiliary contacts		connection terminals
Design of the fuse link • for short-circuit protection of the main circuit / required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height mm 71 Width mm 49 Depth Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Final Mounting types • rail mounting • rail mounting • during operation / minimum CC -25	-		
for short-circuit protection of the main circuit / required for short-circuit protection of the auxiliary switch / required Mechanical Design Height	<u>·</u>		
required • for short-circuit protection of the auxiliary switch / required Mechanical Design Height mm 71 Width mm 49 Depth mm 109.5 Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum	-		fuse at /aC+ 40 A
Mechanical Design Height mm 71 Width mm 49 Depth mm 109.5 Mounting type front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting • during operation / minimum °C -25			fuse gL/gG: 40 A
Height mm 71 Width mm 49 Depth mm 109.5 Mounting type front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum T1 Mo Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Ye			fuse gL/gG: 10 A
Width mm 49 Depth mm 109.5 Mounting type front mounting Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum mm 49 Yes Yes Yes Yes No Environmental conditions	Mechanical Design		
Depth mm 109.5 Mounting type front mounting Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum mm 109.5 Yes No Yes No No Environmental conditions	Height	mm	71
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum front mounting Yes Yes No No Environmental conditions Ambient temperature • during operation / minimum	Width	mm	49
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting No Environmental conditions Ambient temperature • during operation / minimum °C -25	Depth	mm	109.5
 front mounting front mounting with 4-hole attachment front mounting with central attachment Side-by-side mounting rail mounting No Environmental conditions Ambient temperature during operation / minimum C -25 	Mounting type		front mounting
 • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting No Environmental conditions Ambient temperature • during operation / minimum °C -25 	Mounting type		
 front mounting with central attachment Side-by-side mounting rail mounting No Environmental conditions Ambient temperature during operation / minimum °C -25 	• front mounting		Yes
 Side-by-side mounting rail mounting No Environmental conditions Ambient temperature during operation / minimum °C -25 	 front mounting with 4-hole attachment 		No
 ◆ rail mounting No Environmental conditions Ambient temperature ◆ during operation / minimum °C -25 	 front mounting with central attachment 		Yes
Environmental conditions Ambient temperature • during operation / minimum °C -25	Side-by-side mounting		Yes
Ambient temperature ● during operation / minimum °C -25	• rail mounting		No
• during operation / minimum °C -25	Environmental conditions		
• during operation / maximum °C 55	Ambient temperature	°C	-25
Certificates	Ambient temperature ● during operation / minimum	°C	-25 55
Equipment marking	Ambient temperature ■ during operation / minimum ■ during operation / maximum		
• acc. to DIN EN 61346-2	Ambient temperature • during operation / minimum • during operation / maximum Certificates		

General Product Approval













General Product Approval	Declaration of Conformity	Test Certificates	Shipping App	roval	other
<u>other</u>	ϵ	Special Test Certificate	[GL®]		Environmental Confirmations
	EG-Konf.		GI	PRS	

Further information

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

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/3LD22500TK11

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3LD22500TK11/all

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

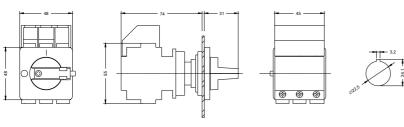
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD22500TK11

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://ausschreibungstexte.siemens.com/tiplv



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