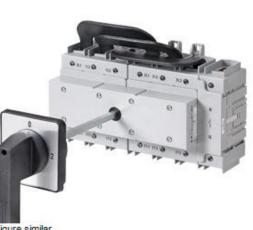
SIEMENS

Data sheet

3LD2418-7UL01



CHANGEOVER SWITCHES 4-POLE CH.SW.250A/690V 132KW/400V 4-PO FRONT 4-HOLE MOUNTING WITH DOOR-COUPL. ROT. OP. MECH. CONTROL ELEMENT BLACK CONTROL ELEMENT NON-LOCKABLE SWITCHING ELEM. FLOOR MOUNTING

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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		4
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	8 000
Protection class		
Protection class IP		IP65
Electricity		
Continuous current / Rated value	А	250
Short-time current resistance (Icw) / at 690 V / limited	А	4 000
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	132
• at AC-23 A / at 690 V / Rated value	kW	55
 at AC-3 / at 400 V / Rated value 	kW	110
• at AC-3 / at 690 V / Rated value	kW	45
Operating voltage	_	
 with AC / at 50/60 Hz / Rated value 	V	690
Operating current / at AC-21 / Rated value	А	250
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	A	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 		No
 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	16
— single or multi-stranded / maximum	mm²	185
 finely stranded / with core end processing / maximum 	mm²	150
— stranded / minimum	mm²	16
— stranded / maximum	mm²	185
 for auxiliary contacts 		

— single or multi-stranded / minimum	mm²	0.75
- single or multi-stranded / maximum	mm²	4
— finely stranded / with core end processing / minimum	mm²	0.75
 finely stranded / with core end processing / maximum 	mm²	2.5
— stranded / minimum	mm²	0.75
— stranded / maximum	mm²	4
Type of connectable conductor cross-section	-	
 for main contacts / finely stranded / with core end processing 		150
 for auxiliary contacts 		
— solid		50
— finely stranded / with core end processing		2x (0.75 1.5 mm2), 1x 2.5 mm2
Type of electrical connection		
• for main current circuit		connection terminals
 for auxiliary contacts 		connection terminals
	_	
Requirements Design of the fuse link		
for short-circuit protection of the main circuit /		fuse gL/gG: 250 A
required		
 for short-circuit protection of the auxiliary switch / required 		fuse gL/gG: 10 A
Mechanical Design		
Height	mm	169
Width	mm	112
Depth	mm	
		94
Mounting type	-	94 floor mounting
Mounting type Mounting type		floor mounting
Mounting type		floor mounting
• front mounting		floor mounting Yes
 Mounting type front mounting front mounting with 4-hole attachment 		floor mounting Yes Yes
 Mounting type front mounting front mounting with 4-hole attachment front mounting with central attachment 		floor mounting Yes Yes No
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting		floor mounting Yes Yes No No
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting		floor mounting Yes Yes No No
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions	°C	floor mounting Yes Yes No No
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	°C C	floor mounting Yes Yes No No No
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • front mounting with central attachment • Side-by-side mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum		floor mounting Yes Yes No No No
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • front mounting with central attachment • Side-by-side mounting • rail mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum • during operation / maximum		floor mounting Yes Yes No No No
Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • front mounting with central attachment • Side-by-side mounting • rail mounting • rail mounting Environmental conditions Ambient temperature • during operation / minimum • during operation / maximum		floor mounting Yes Yes No No No -25

General Product Approval					Declaration of Conformity	
	(SA) CSA	GOST		EHC	EG-Konf.	
Test Certificate	S	other				
Special Test Certificate	Type Test Certificates/Test Report	Environmental Confirmations				

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/3LD24187UL01

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3LD24187UL01/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD24187UL01

CAx-Online-Generator http://www.siemens.com/cax

Tender specifications http://ausschreibungstexte.siemens.com/tiplv

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