SIEMENS

Data sheet 3LD2405-3VK13



MAIN SWITCH 6-POLE FRONT MOUNTING IU=250A, P/AC-23A AT 400V=132KW ROTARY ACTUATOR RED/YELLOW (EMERG. STOP) FOUR-HOLE MOUNTING

Model					
product brand name		SENTRON			
Product designation		Main and EMERGENCY-STOP switches			
Design of the operating mechanism		knob-operated mechanism, red/yellow			
Type of the driving mechanism / motor drive		No			
General technical data					
Number of poles		6			
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			
epotating nequency, meaning					
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	Α	250			
Short-time current resistance (Icw) / at 690 V / limited to 1 s / Rated value	A	4 000			
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	Α	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	Α	10
Insulation voltage / of the auxiliary switch / Rated value	V	500
Suitability	_	
Suitability for use		
Main switch		Yes
switch disconnector		Yes
EMERGENCY OFF switch		Yes
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 single or multi-stranded / maximum finely stranded / with core end processing / mm² 0.75 minimum finely stranded / with core end processing / mm² 2.5 maximum stranded / maximum stranded / maximum stranded / maximum stranded / minimum stranded / minimum stranded / minimum stranded / maximum stranded / minimum stranded / m		mm2	0.75
finely stranded / with core end processing / minimum finely stranded / with core end processing / mm² finely stranded / with core end processing / mm² stranded / minimum stranded / maximum stranded / mm²			
minimum — finely stranded / with core end processing / 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 Design of the fuee 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 • for short-circuit protection of the auxiliary switch / required Mechanical Design Height mm 169 Muth Depth mm 112 Depth mm 94 Mounting type • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • front mounting with central attachment • front mounting with central attachment • side-by-side mounting • rail mounting Frivronmental conditions Ambient temperature • during operation / minimum • during operation / maximum *C 2-25 • Certificates Equipment marking	_		
maximum — stranded / minimum — mm² 0.75 mm² 4 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 • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the auxiliary switch fuse gL/gG: 10 A Mechanical Design Height mm 112 Depth mm 94 Mounting type • front mounting • front mounting • front mounting with 4-hole attachment • front mounting with central attachment • f		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 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 • 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 • 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 • 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 • 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 • 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 • 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 / fuse gL/gG: 250 A **To short-circuit protection of the auxiliary switch / fuse gL/gG: 10 A **Design of the fuse gL/gG: 10 A **To short-circuit protection of the auxiliary switch / fuse gL/gG: 10 A **To short-circuit protection of the auxiliary switch / fuse gL/gG: 10 A **To		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 • 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 • 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 • 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 • 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 • 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 • 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 • 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 / fuse gL/gG: 250 A **Total Sulface Sulf	— 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 Fequirements Design of the fuse link • for short-circuit protection of the main circuit / required fuse gL/gG: 250 A fuse gL/gG: 10 A Mechanical Design Height mm 169 Width mm 112 Depth mm 94 Mounting type • front mounting Mounting type • front mounting with 4-hole attachment • for not mounting • rail mounting • rail mounting No Side-by-side mounting No Prail mounting Anbient temperature • during operation / minimum °C -25 Certificates Equipment marking	— stranded / maximum	mm²	4
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solid finely stranded / with core end processing Type of electrical connection • for main current circuit • for auxiliary contacts Connection terminals Executive memory 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 169 Width mm 112 Depth mm 94 Mounting type • front mounting • front mounting • front mounting • front mounting with 4-hole attachment • front mounting • rail mounting • rail mounting • during operation / minimum • during operation / maximum **C -25 Certificates Equipment marking	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 Mechanical Design Height Mounting type • front mounting • front mounting • front mounting with 4-hole attachment • front mounting • rail mounting • during operation / maximum Cectificates Equipment marking 2x (0.75 1.5 mm2), 1x 2.5 mm2 2x (0.75 1.5 mm2), 1x 2.5 mm2 connection terminals fuse gL/gG: 250 A fuse gL/gG: 10 A fuse gL/gG: 250 A fuse gL/gG: 250 A fuse gL/gG: 10 A fuse gL/gG: 10 A fuse gL/gG: 10 A fuse gL/gG: 250 A fuse gL/gG: 250 A fuse gL/gG: 10 A fuse gL/gG: 250	 for auxiliary contacts 		
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• 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	— finely stranded / with core end processing		2x (0.75 1.5 mm2), 1x 2.5 mm2
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front mounting with central attachment Side-by-side mounting No rail mounting No Environmental conditions Ambient temperature during operation / minimum	/ required Mechanical Design Height Width Depth Mounting type	mm	169 112 94
Side-by-side mounting rail mounting No Environmental conditions Ambient temperature during operation / minimum c C -25 during operation / maximum c C 55 Certificates Equipment marking	/ required Mechanical Design Height Width Depth Mounting type Mounting type	mm	169 112 94 front mounting
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General Product Approval

Declaration of Conformity













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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/3LD24053VK13

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

http://support.automation.siemens.com/WW/view/en/3LD24053VK13/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3LD24053VK13

CAx-Online-Generator

http://www.siemens.com/cax

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

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