SIEMENS

Data sheet 3RB2163-4MC2

OVERLOAD RELAY 160...630 A FOR MOTOR PROTECTION SIZE S10/S12, CLASS 5...30 MOUNT. ONTO CONT./ STAND-ALONE MAIN CIRCUIT: BAR CONNECTION AUX. CIRCUIT: SCREW CONNECTION MANUAL-AUTOMATIC-RESET INT. EARTH FAULT DETECTION

product brand name		SIRIUS
Product designation		solid-state overload relay

General technical data:		
Active power loss total typical	W	0.05
Insulation voltage		
• with degree of pollution 3 Rated value	V	1 000
Shock resistance		15g / 11 ms
Surge voltage resistance Rated value	kV	8
Size of contactor can be combined company-specific		S10, S12
Type of assignment		2
Protection class IP		
• on the front		IP20
Type of protection		PTB 06 ATEX 3001 Ex II (2) GD
Equipment marking		
• acc. to DIN EN 61346-2		F
• acc. to DIN EN 81346-2		F

Main circuit:		
Number of poles for main current circuit		3
Adjustable response value current of the current-dependent overload release	A	160 ... 630
Operating voltage		
• at AC-3 Rated value maximum	V	1 000

Auxiliary circuit:		
Number of NC contacts		

• for auxiliary contacts		1
Number of NO contacts		
• for auxiliary contacts		1
Number of CO contacts		
• for auxiliary contacts		0
Operating current of the auxiliary contacts at AC-15		
• at 24 V	A	4
• at 110 V	A	4
• at 120 V	A	4
• at 125 V	A	4
• at 230 V	A	3
Operating current of the auxiliary contacts at DC-13		
• at 24 V	A	2
• at 60 V	A	0.55
• at 110 V	A	0.3
• at 125 V	A	0.3
• at 220 V	A	0.11

Protective and monitoring functions:

Trip class		CLASS 5, 10, 20 and 30 adjustable

Short-circuit:

Design of the fuse link		
• for short-circuit protection of the auxiliary switch required		fuse gL/gG: 6 A

Installation/ mounting/ dimensions:

mounting position		any
Mounting type		direct mounting / stand-alone installation
Height	mm	147
Width	mm	145
Depth	mm	156
Required spacing		
• with side-by-side mounting		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	0
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— at the side	mm	6

— downwards	mm	0
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	0
— downwards	mm	0
— at the side	mm	6

Connections/ Terminals:		
Type of electrical connection		
• for main current circuit		busbar connection
• for auxiliary and control current circuit		screw-type terminals
Product function		
• removable terminal for auxiliary and control circuit		Yes
Type of connectable conductor cross-section		
• for auxiliary contacts		
— solid		0.5 ... 4 mm², 2x (0.5 ... 2.5 mm²)
— finely stranded with core end processing		0.5 ... 2.5 mm², 2x (0.5 ... 1.5 mm²)
• for AWG conductors for auxiliary contacts		2x (20 ... 14)

Safety related data:		
Protection against electrical shock		finger-safe with cover

Mechanical data:		
Size of overload relay		S10, S12

Ambient conditions:		
Installation altitude at height above sea level maximum	m	2 000
Ambient temperature		
• during operation	°C	-25 ... +60
• during storage	°C	-40 ... +80
• during transport	°C	-40 ... +80
Relative humidity during operation	%	100

Electromagnetic compatibility:		
Conducted interference due to burst acc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
Conducted interference due to conductor-earth surge acc. to IEC 61000-4-5		2 kV (line to earth) corresponds to degree of severity 3
Conducted interference due to conductor-conductor surge acc. to IEC 61000-4-5		1 kV (line to line) corresponds to degree of severity 3
Field-bound parasitic coupling acc. to IEC 61000-4-3		10 V/m
Electrostatic discharge acc. to IEC 61000-4-2		6 kV contact discharge / 8 kV air discharge

Certificates/ approvals:

General Product Approval				EMC	For use in hazardous locations
CCC	CSA		UL	C-TICK	ATEX

Declaration of Conformity	Test Certificates			Shipping Approval	
EG-Konf.	Type Test Certificates/Test Report	Declaration of the Compliance with the order	Special Test Certificate	ABS	DNV

Shipping Approval			other	
GL	LRS	RINA	other	Environmental Confirmations

Further information

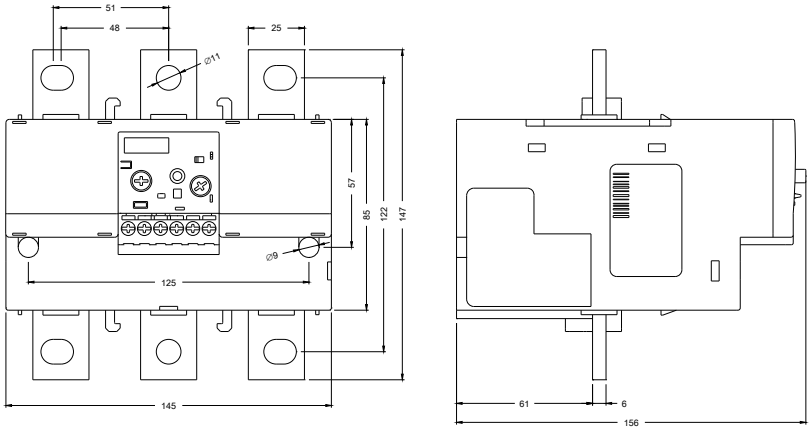
Information- and Downloadcenter (Catalogs, Brochures,…)
http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)
http://www.siemens.com/industrymall

Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB21634MC2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
http://support.automation.siemens.com/WW/view/en/3RB21634MC2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB21634MC2&lang=en



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