SIEMENS

Data sheet 3RU2136-4BB0



OVERLOAD RELAY 14...20 A FOR MOTOR PROTECTION SIZE S2, CLASS 10 FOR MOUNTING ONTO CONTACTORS MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SCREW TERMINAL MANUAL-AUTOMATIC-RESET.

rigure similar	
product brand name	SIRIUS
Product designation	3RU2 thermal overload relay

General technical data:			
Active power loss total typical	W	8	
Insulation voltage			
 with degree of pollution 3 Rated value 	V	690	
Shock resistance			
• acc. to IEC 60068-2-27		8g / 11 ms	
Surge voltage resistance Rated value	kV	6	
Temperature compensation	°C	-40 +60	
Recovery time			
 after overload trip with automatic reset typical 	min	10	
 after overload trip with remote-reset 	min	10	
 after overload trip with manual reset 	min	10	
Size of contactor can be combined company-specific		S2	
Type of assignment		2	
Protection class IP			
• on the front		IP20	
• of the terminal		IP00	
Type of protection		on request	
Equipment marking			
• acc. to DIN EN 81346-2		F	

Main circuit:	
Number of poles for main current circuit	3

Adjustable response value current of the current-	Α	14 20		
dependent overload release				
Operating voltage				
Rated value	V	690		
• at AC-3 Rated value maximum	V	690		
Operating frequency Rated value	Hz	50 60		
Operating current Rated value	Α	20		
Operating current				
• at AC-3				
— at 400 V Rated value	Α	20		
Auxiliary circuit:				
Number of NC contacts				
 for auxiliary contacts 		1		
— Note		for contactor disconnection		
Number of NO contacts				
• for auxiliary contacts		1		
— Note		for message "Tripped"		
Number of CO contacts				
• for auxiliary contacts		0		
Design of the auxiliary switch		integrated		
Operating current of the auxiliary contacts at AC-15				
• at 24 V	Α	3		
• at 110 V	Α	3		
• at 120 V	Α	3		
• at 125 V	Α	3		
• at 230 V	Α	2		
• at 400 V	Α	1		
Operating current of the auxiliary contacts at DC-13				
• at 24 V	Α	2		
• at 110 V	Α	0.22		
● at 125 V	Α	0.22		
● at 220 V	Α	0.11		
Design of the miniature circuit breaker				
• for short-circuit protection of the auxiliary switch required		6A (SCC less than equal to 0.5 kA; U less than equal to 260V)		
Protective and monitoring functions:				
Trip class		CLASS 10		
Design of the overload circuit breaker		thermal		
JL/CSA ratings:				
Full-load current (FLA) for three-phase AC motor				
at 480 V Rated value	Α	20		

● at 600 V Rated value	Α	20
Contact rating of the auxiliary contacts acc. to UL		B600 / R300

Short-circuit:		
Design of the fuse link		
• for short-circuit protection of the main circuit		
— required	Fu	use gG: 50 A
 for short-circuit protection of the auxiliary switch required 	fu	use gG: 6 A, quick: 10 A

nstallation/ mounting/ dimensions:			
mounting position		any	
Mounting type		direct mounting	
Height	mm	90	
Width	mm	55	
Depth	mm	105	
Required spacing			
with side-by-side mounting			
— forwards	mm	10	
— Backwards	mm	0	
— upwards	mm	10	
— downwards	mm	10	
— at the side	mm	10	
for grounded parts			
— forwards	mm	10	
— Backwards	mm	0	
— upwards	mm	10	
— at the side	mm	10	
— downwards	mm	10	
• for live parts			
— forwards	mm	10	
— Backwards	mm	0	
— upwards	mm	10	
— downwards	mm	10	
— at the side	mm	10	

Connections/ Terminals:	
Type of electrical connection	
• for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Product function	

 removable terminal for auxiliary and control circuit 		No
Type of connectable conductor cross-section		
• for main contacts		
 single or multi-stranded 		2x (1 35 mm²), 1x (1 50 mm²)
 finely stranded with core end processing 		2x (1 25 mm²), 1x (1 35 mm²)
 for AWG conductors for main contacts 		2x (18 2), 1x (18 1)
for auxiliary contacts		
— single or multi-stranded		2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 16), 2x (18 14)
Tightening torque		
• for main contacts with screw-type terminals	N·m	3 4.5
Design of screwdriver shaft		5 to 6 mm diameter
Design of the thread of the connection screw		
• for main contacts		M6
 of the auxiliary and control contacts 		M3
Safety related data:		
Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529
Mechanical data:		
Size of overload relay		S2
Ambient conditions:		
Installation altitude at height above sea level	m	2 000
maximum		
Ambient temperature		
during operation	°C	-40 +70
during storage	°C	-55 + 80
during transport	°C	-55 + 80
Relative humidity during operation	%	0 90
Display:		
Display version		
• for switching status		Slide switch
Certificates/ approvals:		

General Product Approval	For use in	Declaration of	Test
	hazardous	Conformity	Certificates
	locations		











Type Test Certificates/Test Report

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=3RU21364BB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21364BB0/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=3RU21364BB0&lang=en





