SIEMENS

Data sheet 3RU2136-4KB1



OVERLOAD RELAY 62...73 A FOR MOTOR PROTECTION SIZE S2, CLASS 10A STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERM. AUX. CIRCUIT: SCREW TERM. MANUAL/AUTOMATIC RESET

product brand name SIRIUS
Product designation 3RU2 thermal overload relay

General technical data:		
Active power loss total typical	W	13
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	3

dependent overload release Operating voltage Rated value at AC-3 Rated value maximum Operating frequency Rated value Operating frequency Rated value A 73 Operating current at AC-3 — at 400 V Rated value A 73 Auxiliary circuit: Number of NC contacts for auxiliary contacts Note Number of NO contacts for auxiliary contacts for auxiliary contacts for auxiliary contacts for message "Tripped" Number of CO contacts for message "Tripped" Number of CO contacts at 100 Design of the auxiliary switch Operating current of the auxiliary contacts at AC-15 at 24 V at 120 V at 125 V at 120 V at 125 V at 120 V at 110 V A 2 at 110 V A 2 at 110 V A 3 at 24 V at 110 V A 2 at 110 V A 2 at 110 V A 2 at 110 V A 3 at 24 V at 120 V at 125 V at 120 V at 125 V at 120 V at 120 V at 125 V at 120 V A 0.22 at 110 V A 0.22 at 120 V at 125 V at 120 V A 0.22 at 125 V	Adjustable response value current of the current-	Α	62 73
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Operating current of the auxiliary contacts at DC-13 • at 24 V • at 110 V • at 125 V • at 220 V Design of the miniature circuit breaker • for short-circuit protection of the auxiliary switch required Protective and monitoring functions: Trip class CLASS 10A Design of the overload circuit breaker to 260V)	● at 230 V	Α	2
Operating current of the auxiliary contacts at DC-13 • at 24 V • at 110 V • at 125 V • at 220 V Design of the miniature circuit breaker • for short-circuit protection of the auxiliary switch required Protective and monitoring functions: Trip class CLASS 10A Design of the overload circuit breaker to 260V)	● at 400 V	Α	1
 at 24 V at 110 V at 125 V at 220 V Design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required For equired 6A (SCC less than equal to 0.5 kA; U less than equived to 260V) Protective and monitoring functions: Trip class CLASS 10A Design of the overload circuit breaker 			
 at 125 V at 220 V Design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required Frotective and monitoring functions: Trip class CLASS 10A Design of the overload circuit breaker 		Α	2
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● at 220 V Design of the miniature circuit breaker ● for short-circuit protection of the auxiliary switch required Protective and monitoring functions: Trip class CLASS 10A Design of the overload circuit breaker A 0.11 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) CLASS 10A thermal		Α	0.22
• 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 10A Design of the overload circuit breaker to 260V)		Α	0.11
required to 260V) Protective and monitoring functions: Trip class CLASS 10A Design of the overload circuit breaker thermal	Design of the miniature circuit breaker		
Protective and monitoring functions: Trip class CLASS 10A Design of the overload circuit breaker thermal	for short-circuit protection of the auxiliary switch		6A (SCC less than equal to 0.5 kA; U less than equal
Trip class CLASS 10A Design of the overload circuit breaker thermal			to 260V)
Design of the overload circuit breaker thermal			
	-		
UL/CSA ratings:	Design of the overload circuit breaker		thermal
Full-load current (FLA) for three-phase AC motor			
at 480 V Rated value A 73	● at 480 V Rated value	Α	/3

● at 600 V Rated value	Α	73
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	Fuse gG: 160 A
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A

nstallation/ mounting/ dimensions: mounting position		any	
Mounting type		stand-alone installation	
Height	mm	105	
Width	mm	55	
Depth	mm	117	
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 hazardous locations	Declaration of Conformity	Test Certificates
	locations		











Type Test Certificates/Test Report

Test Certificates	other	
Special Test	Confirmation	Environmental
Certificate		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=3RU21364KB1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21364KB1/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=3RU21364KB1&lang=en







