SIEMENS

Data sheet

3RU2136-4KD1



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

Figure	eimilar
1 yure	SILLING

product brand name

Product designation

SIRIUS
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

dependent overload releaseImage: state of the	Adjustable response value current of the current-	A	62 73
Rated valueV690• at AC-3 Rated value maximumV690Operating current Rated valueHz50 60Operating current• at AC-373- at 400 V Rated valueA73Operating current• at AC-373- at 400 V Rated valueA73Vullery circuit:Vullery contacts1- Notefor contactor disconnectionVorticy contacts1- Notefor contactor disconnectionNumber of NC contacts1- Notefor contactor disconnectionNumber of CO contacts0Operating current of the auxiliary contacts at AC-150• for auxiliary contacts0Operating current of the auxiliary contacts at AC-150• at 110 VA3• at 125 VA3• at 230 VA2• at 230 VA2• at 24VA2• at 24VA2• at 230 VA2• at 24VA2• at 230 VA2• at 24VA2• at 25VA2• at 24VA2• at 25VA2• at 26VA2• at 27VA22• at 28VA22• at 29VA0.222• at 20VA0.222• at 25VA0.222• at 26VA0.222• at 27VA0.26			
vit AC-3 Rated value maximum V 690 Operating frequency Rated value Hz 50 60 Operating current Rated value A 73 Operating current at AC-3 - - at 400 V Rated value A 73 Vuiliary circuit A 73 Vuiliary circuit A 73 Vuiliary circuit A 73 Vuiliary contacts 1 - • for auxiliary contacts 0 - • for auxiliary contacts 0 - • for auxiliary contacts 0 - • auxiliary contacts 0 - • at 24 V A 3 - • at 120 V A 3 - • at 230 V A 2 - • at 24 V A 2/txttriated - • at 24 V	Operating voltage	-	
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Operating current A 73 Operating current • at AC-3 - - at 400 V Rated value A 73 Vuxiliary contacts - 73 - Note For contactor disconnection Number of NC contacts 1 - - Note for contactor disconnection Number of NC contacts 1 1 - Note for message "Tripped" Number of CO contacts 0 0 - Note for message "Tripped" Number of CO contacts 0 0 • for auxiliary contacts 0 0 Design of the auxiliary switch 0 0 of at 110 V A 3 • at 120 V A 3 • at 230 V A 1 • at 24 V A 2 • at 100 V A 1 Operating current of the auxiliary contacts at DC-13 2 • at 220 V A 1 ot 110 V A 0.22 • at 1	 at AC-3 Rated value maximum 	V	690
Operating current • at AC-3 - at 400 V Rated value A 73 Vuxiliary circuit: Number of NC contacts 1 Image: Imag	Operating frequency Rated value	Hz	50 60
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	Operating current		
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• at 110 VA0.22• at 125 VA0.22• at 220 VA0.11Design of the miniature circuit breaker • for short-circuit protection of the auxiliary switch required6A (SCC less than equal to 0.5 kA; U less than equal to 260V)Protective and monitoring functions:CLASS 10ADesign of the overload circuit breakeritermalJL/CSA ratings:Itermal	Operating current of the auxiliary contacts at DC-13		
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• at 220 VA0.11Design of the miniature circuit breaker • for short-circuit protection of the auxiliary switch required6A (SCC less than equal to 0.5 kA; U less than equal to 260V)Protective and monitoring functions:CLASS 10ATrip classCLASS 10ADesign of the overload circuit breakerthermalJL/CSA ratings:CLASS 10AFull-load current (FLA) for three-phase AC motorI	● at 110 V	А	0.22
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required to 260V) Protective and monitoring functions: Trip class Design of the overload circuit breaker CLASS 10A Design of the overload circuit breaker thermal JL/CSA ratings: Full-load current (FLA) for three-phase AC motor	Design of the miniature circuit breaker		
Protective and monitoring functions: Trip class Design of the overload circuit breaker UL/CSA ratings: Full-load current (FLA) for three-phase AC motor	• for short-circuit protection of the auxiliary switch		6A (SCC less than equal to 0.5 kA; U less than equal
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Design of the overload circuit breaker thermal JL/CSA ratings:	Protective and monitoring functions:		
JL/CSA ratings: Full-load current (FLA) for three-phase AC motor	-		
Full-load current (FLA) for three-phase AC motor	Design of the overload circuit breaker		thermal
	UL/CSA ratings:		
at 480 V Rated value A 73			
	• at 480 V Rated value	A	/3

• at 600 V Rated value	А	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

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 	spring-loaded terminals
Arrangement of electrical connectors for main current	Top and bottom
circuit	
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 2,5 mm²)
— finely stranded with core end processing		2x (0.5 1.5 mm²)
 finely stranded without core end processing 		2x (0.5 2.5 mm²)
 for AWG conductors for auxiliary contacts 		2x (20 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
Safety related data:		
Safety related data: Protection against electrical shock		finger-safe when touched vertically from front acc. to IEC 60529
		-
Protection against electrical shock		
Protection against electrical shock Mechanical data:		IEC 60529
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level	m	IEC 60529
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum	m	IEC 60529 S2
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature	_	IEC 60529 S2 2 000
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation	°C	IEC 60529 S2 2 000 -40 +70
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage	°C °C	IEC 60529 S2 2 000 -40 +70 -55 +80
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage • during transport	°C °C °C	IEC 60529 S2 2 000 -40 +70 -55 +80 -55 +80
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage	°C °C	IEC 60529 S2 2 000 -40 +70 -55 +80
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage • during transport	°C °C °C	IEC 60529 S2 2 000 -40 +70 -55 +80 -55 +80
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage • during transport Relative humidity during operation	°C °C °C	IEC 60529 S2 2 000 -40 +70 -55 +80 -55 +80
Protection against electrical shock Mechanical data: Size of overload relay Ambient conditions: Installation altitude at height above sea level maximum Ambient temperature • during operation • during storage • during transport Relative humidity during operation Display:	°C °C °C	IEC 60529 S2 2 000 -40 +70 -55 +80 -55 +80

General Proc	duct Approval	For use in hazardous locations	Declaration of Conformity	Test Certificates
CSA	EHC	ATEX ATEX	EG-Konf.	<u>Type Test</u> <u>Certificates/Test</u> <u>Report</u>

Test Certificates	other	
Special Test Certificate	Confirmation	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=3RU21364KD1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21364KD1/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=3RU21364KD1&lang=en





