## **SIEMENS**

Data sheet 3RU2136-4FD1



OVERLOAD RELAY 28...40 A FOR MOTOR PROTECTION SIZE S2, CLASS 10 STAND-ALONE INSTALLATION MAIN CIRCUIT: SCREW TERMINAL AUX. CIRCUIT: SPRING-T. TERM. MANUAL-AUTOMATIC-RESET.

Figure similar

product brand name	SIRIUS
Product designation	3RU2 thermal overload relay

W	11
V	690
	8g / 11 ms
kV	6
°C	-40 +60
min	10
min	10
min	10
	S2
	2
	IP20
	IP00
	on request
	F
	V kV °C min min

Main circuit:		
Number of poles for main current circuit	3	

Adjustable response value current of the current-	Α	28 40
dependent overload release		
Operating voltage		
Rated value	V	690
<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690
Operating frequency Rated value	Hz	50 60
Operating current Rated value	Α	40
Operating current	_	
• at AC-3		
— at 400 V Rated value	Α	40
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		6A (SCC less than equal to 0.5 kA; U less than equal
required		to 260V)
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
<ul> <li>at 480 V Rated value</li> </ul>	Α	40

● at 600 V Rated value	Α	40
Contact rating of the auxiliary contacts acc. to UL		B600 / R300

Short-circuit:	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— required	Fuse gG: 80 A
• for short-circuit protection of the auxiliary switch	fuse gG: 6 A, quick: 10 A
required	

nstallation/ mounting/ dimensions:		
mounting position		any
Mounting type		stand-alone installation
Height	mm	105
Width	mm	55
Depth	mm	117
Required spacing		
<ul><li>with side-by-side mounting</li></ul>		
— 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
<ul> <li>for auxiliary and control current circuit</li> </ul>	spring-loaded terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Product function	

<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		No
Type of connectable conductor cross-section	_	
• for main contacts		
<ul><li>— single or multi-stranded</li></ul>		2x (1 35 mm²), 1x (1 50 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (1 25 mm²), 1x (1 35 mm²)
<ul> <li>for AWG conductors for main contacts</li> </ul>		2x (18 2), 1x (18 1)
<ul> <li>for auxiliary contacts</li> </ul>		
— single or multi-stranded		2x (0,5 2,5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>		2x (0.5 1.5 mm²)
<ul> <li>finely stranded without core end processing</li> </ul>		2x (0.5 2.5 mm²)
<ul> <li>for AWG conductors for auxiliary contacts</li> </ul>		2x (20 14)
Tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	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:		
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 maximum	m	2 000
Ambient temperature		
<ul><li>during operation</li></ul>	°C	-40 +70
during storage	°C	-55 <b>+</b> 80
during transport	°C	-55 <b>+</b> 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

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=3RU21364FD1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21364FD1/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=3RU21364FD1&lang=en









