SIEMENS

Data sheet

3RU2136-4RD1



Overload relay 70...80 A Thermal For motor protection Size S2, Class 10A Stand-alone installation Main circuit: Screw Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S2
size of contactor can be combined company-specific	S2
power loss [W] for rated value of the current at AC in hot operating state	18.9 W
• per pole	6.3 W
insulation voltage with degree of pollution 3 at AC rated value	690 V
surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	415 V
 between auxiliary and auxiliary circuit 	415 V
 between main and auxiliary circuit 	690 V
 between main and auxiliary circuit 	690 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD
certificate of suitability according to ATEX directive 2014/34/EU	DMT 98 ATEX G 001
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/15/2014
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-40 +70 °C
 during storage 	-55 +80 °C
 during transport 	-55 +80 °C
temperature compensation	-40 +60 °C
relative humidity during operation	10 95 %
Main circuit	
number of poles for main current circuit	3
adjustable current response value current of the current-dependent overload release	70 80 A
operating voltage	
rated value	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	80 A
operational current at AC-3e at 400 V rated value	80 A

operating power				
• at AC-3				
— at 400 V rated value	37 kW			
— at 500 V rated value	55 kW			
— at 690 V rated value	75 kW			
• at AC-3e	07.114			
— at 400 V rated value	37 kW			
— at 500 V rated value	55 kW			
— at 690 V rated value	75 kW			
Auxiliary circuit				
design of the auxiliary switch	integrated			
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			
operational current of auxiliary contacts at AC-15 • at 24 V	3 A			
• at 110 V	3 A			
• at 120 V	3 A			
• at 125 V	3 A			
• at 230 V	2 A			
• at 400 V	2 A 1 A			
• at 690 V	0.75 A			
operational current of auxiliary contacts at DC-13				
• at 24 V	2 A			
• at 60 V	0.3 A			
• at 110 V	0.22 A			
• at 125 V	0.22 A			
• at 220 V	0.11 A			
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)			
contact rating of auxiliary contacts according to UL	B600 / R300			
	B600 / R300			
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	B600 / R300 CLASS 10A			
Protective and monitoring functions				
Protective and monitoring functions trip class design of the overload release	CLASS 10A			
Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10A			
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	CLASS 10A thermal			
Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10A			
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	CLASS 10A thermal 80 A			
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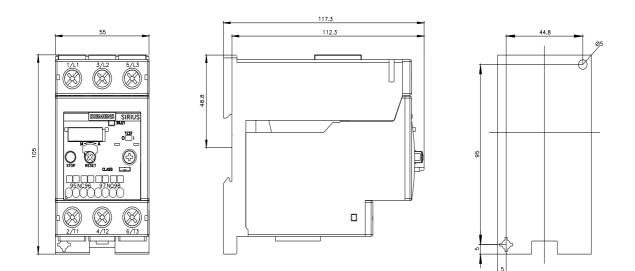
	randed nded with core end process nded without core end process of a auxiliary contacts cts with screw-type terminal ver shaft iver tip d of the connection screw cts st interval or service life acc on the front according to IE witching status	sing 2 essing 2 ls 2 ording to 2 IEC 1 C 60529 f	2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²) 2x (0.5 2.5 mm²) 2x (20 14) 3 4.5 N·m Diameter 5 6 mm Pozidriv PZ 2 M6 20 a IP20 finger-safe, for vertical conta Slide switch	act from the front	
General Product A					For use in hazard- ous locations
(SP)	<u>Confirmation</u>	CCC	UL	EAC	
For use in hazard- ous locations	Declaration of Conform	nity	Test Certificates		Marine / Shipping
IECEx	UK CA	CE EG-Konf.	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS
Marine / Shipping					
BUREAU VERITAS		Lloyd's Register uis	PRS	RINA	RMRS
other	Railway				
<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>				

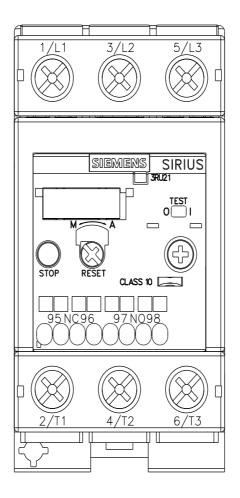
Further information
Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875
Information- and Downloadcenter (Catalogs, Brochures,…) https://www.siemens.com/ic10
Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4RD1
Cax online generator <u>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4RD1</u> Service&Support (Manuals, Certificates, Characteristics, FAQs)

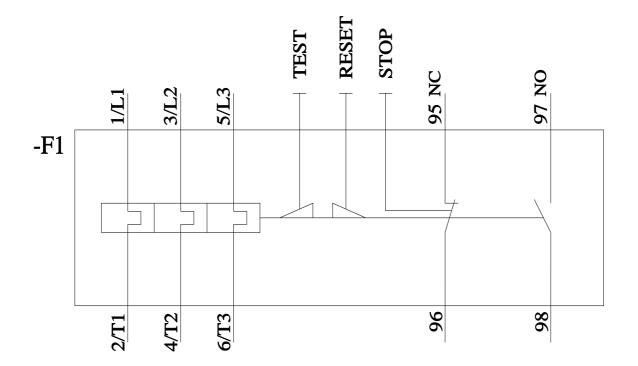
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD1

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4RD1&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4RD1&objecttype=14&gridview=view1







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