## SIEMENS

## Data sheet

## 3RU2136-4ED0



Overload relay 22...32 A Thermal For motor protection Size S2, Class 10 Contactor mounting 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	13.8 W
• per pole	4.6 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	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	415 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	415 V
<ul> <li>between main and auxiliary circuit</li> </ul>	690 V
<ul> <li>between main and auxiliary circuit</li> </ul>	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	
<ul> <li>during operation</li> </ul>	-40 +70 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
<ul> <li>during transport</li> </ul>	-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	22 32 A
operating voltage	
rated value	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	32 A
operational current at AC-3e at 400 V rated value	32 A

operating power	
• at AC-3	
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 kW
• at AC-3e	
— at 400 V rated value	15 kW
— at 500 V rated value	18.5 kW
— at 690 V rated value	30 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 2 A
• at 125 V	3 A
• at 230 V	2 A
• at 400 V	1 A 0.75 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	0.3 A
• at 125 V	0.22 A
• at 220 V	0.11 A
design of the miniature circuit breaker for short-circuit	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)
protection of the auxiliary switch required	
protection of the auxiliary switch required	
contact rating of auxiliary contacts according to UL	B600 / R300
	B600 / R300
contact rating of auxiliary contacts according to UL	B600 / R300 CLASS 10
contact rating of auxiliary contacts according to UL Protective and monitoring functions	
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	CLASS 10
contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10
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contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	CLASS 10 thermal
contact rating of auxiliary contacts according to UL 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 10 thermal 32 A
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<ul> <li>finely stra</li> <li>at AWG cables</li> <li>tightening torque</li> <li>for main conta</li> <li>design of screwdriv</li> <li>size of the screwdriv</li> </ul>	tranded anded with core end proces anded without core end pro s for auxiliary contacts cts with screw-type termina ver shaft iver tip d of the connection scree	cessing	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		
T1 value for proof te	st interval or service life ac	cording to	20 a		
IEC 61508 protection class IP 60529	on the front according to	IEC	IP20		
	n the front according to I	EC 60529	finger-safe, for vertical conta	ict from the front	
Display	-		-		
display version for sv	witching status		Slide switch		
Certificates/ approva	ls				
General Product A	pproval				For use in hazard- ous locations
SP		<u>Confirmatio</u>	<sup>-</sup> (り)	FAL	(Ex)
CSA For use in hazard-			UL		ATEX
For use in hazard- ous locations	ccc Declaration of Confor	mity	UL Test Certificates	LIIL	ATEX
	CCC Declaration of Confor	mity CE EG-Konf.	UL Test Certificates Special Test Certific- ate	LILL Type Test Certific- ates/Test Report	ATEX
ous locations	Declaration of Confor	CE	Special Test Certific-		ATEX
ous locations	Declaration of Confor	CE	Special Test Certific-		ATEX Marine / Shipping
ous locations		EG-Konf.	Special Test Certific-		ATEX Marine / Shipping

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=3RU2136-4ED0	
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4ED0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)	

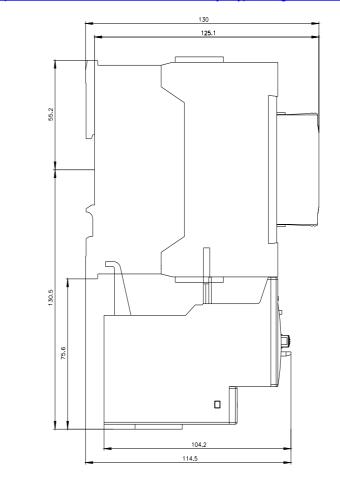
## https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4ED0

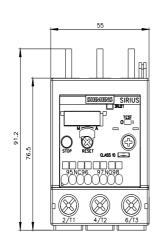
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2136-4ED0&lang=en

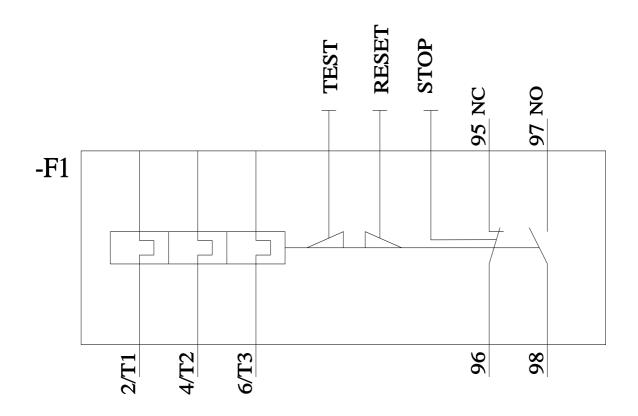
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4ED0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4ED0&objecttype=14&gridview=view1







last modified:

3/8/2022 🖸