## SIEMENS

## Data sheet

## 3RU2136-4FB0



Overload relay 28...40 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw 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	15.6 W
• per pole	5.2 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 protective separation	
<ul> <li>in networks with ungrounded star point between auxiliary and auxiliary circuit</li> </ul>	415 V
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	415 V
<ul> <li>in networks with ungrounded star point between main and auxiliary circuit</li> </ul>	690 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	690 V
shock resistance according to IEC 60068-2-27	8g / 11 ms
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/15/2014
SVHC substance name	Lead - 7439-92-1
Weight	0.322 kg
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	28 40 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	40 A

	10.4
operational current at AC-3e at 400 V rated value	40 A
operating power	
• at AC-3	
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	37 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
	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	0.22 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
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	40 A
• at 600 V rated value	40 A
Short-circuit protection	
design of the fuse link	
for short-circuit protection of the auxiliary switch required	fuse gG: 6 A, quick: 10 A
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	90 mm
width	55 mm
depth	105 mm
Connections/ Terminals	
	No
product component removable terminal for auxiliary and control circuit	No
type of electrical connection	
<ul> <li>for main current circuit</li> </ul>	screw-type terminals
<ul> <li>for auxiliary and control circuit</li> </ul>	screw-type terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	
for main contacts	
— solid or stranded	2x (1 35 mm²), 1x (1 50 mm²)

-	ded with core end process	Ŭ	2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )			
• for AWG cables			2x (18 2), 1x (18 1)			
	onductor cross-sections	5				
<ul> <li>for auxiliary cont</li> </ul>						
— solid or stra			2x (0.5 1.5 mm²), 2x (0.75	·		
-	ded with core end process		2x (0.5 1.5 mm²), 2x (0.75	2.5 mm²)		
<ul> <li>for AWG cables</li> </ul>	for auxiliary contacts		2x (20 16), 2x (18 14)			
tightening torque						
<ul> <li>for main contacts</li> </ul>	s with screw-type terminal	s :	3 4.5 N·m			
<ul> <li>for auxiliary cont</li> </ul>	acts with screw-type termi	inals	0.8 1.2 N·m			
design of screwdriver	r shaft		Diameter 5 6 mm			
size of the screwdrive	er tip	1	Pozidriv PZ 2			
design of the thread of	of the connection screw					
<ul> <li>for main contacts</li> </ul>	8		M6			
<ul> <li>of the auxiliary a</li> </ul>	nd control contacts	1	M3			
IEC 61508						
T1 value						
<ul> <li>for proof test inte 61508</li> </ul>	erval or service life accord	ing to IEC	20 a			
Electrical Safety						
	the front according to I	EC 60529	IP20			
-	he front according to IEC		finger-safe, for vertical contact	from the front		
-						
isplay						
display version for swite	ching status		Slide switch			
pprovals Certificates						
EG-Konf.	UK CA				tHL	
For use in hazardous	locations		Test Certificates		Marine / Shipping	
K ATEX	IECEx	<u>Miscellaneous</u>	<u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS	
Marine / Shipping						
BUREAU VERITAS	18 DNV	Lloyds Register urs	PRS	RINA	RMRS RMRS	
other	Railway	Environment				
<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	EPD	Environmental Con- firmations			
urther information						
Information on the packaging						
https://support.industry Information- and Dow https://www.siemens.co	.siemens.com/cs/ww/en/vi					
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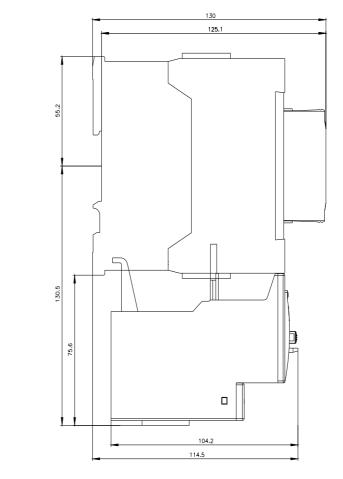
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

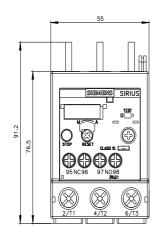
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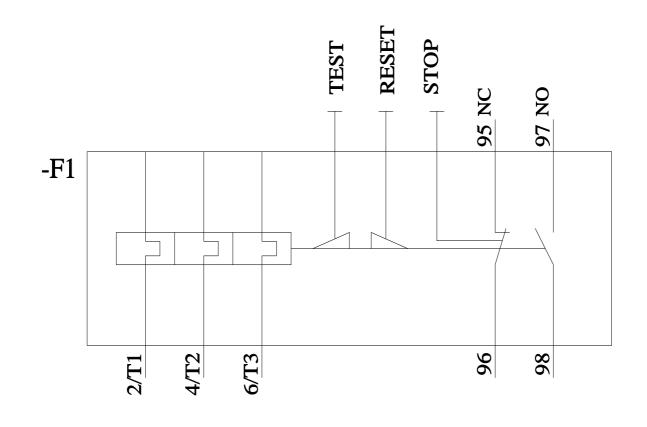
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2136-4FB0&lang=en

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4FB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4FB0&objecttype=14&gridview=view1







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