SIEMENS

Data sheet

3RU2136-4BB0



Overload relay 14...20 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	10.5 W
• per pole	3.5 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	
 in networks with ungrounded star point between auxiliary and auxiliary circuit 	415 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	415 V
 in networks with ungrounded star point between main and auxiliary circuit 	690 V
 in networks with grounded star point between main and auxiliary circuit 	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	0.33 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	14 20 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	20 A

operational current at AC-3e at 400 V rated value	20 A			
operational current at AC-se at 400 V fated value	20 7			
• at AC-3				
	7.5 kW			
— at 400 V rated value	1.5 KW			
— at 500 V rated value				
— at 690 V rated value	15 kW			
• at AC-3e				
— at 400 V rated value	7.5 kW			
— at 500 V rated value	11 kW			
— at 690 V rated value	15 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	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			
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	20 A			
• at 600 V rated value	20 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				
product component removable terminal for auxiliary and	No			
control circuit				
type of electrical connection				
for many and the second s	ECTOW TVDA TATMINAIS			
• for main current circuit	screw-type terminals			
• for auxiliary and control circuit	screw-type terminals			
• for auxiliary and control circuit arrangement of electrical connectors for main current circuit				
for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	screw-type terminals			
• for auxiliary and control circuit arrangement of electrical connectors for main current circuit	screw-type terminals			

 for auxiliary conta — solid or stra — finely strand for AWG cables f tightening torque for main contacts 	onductor cross-sections acts nded Jed with core end process	5	2x (18 2), 1x (18 1)					
 for auxiliary conta — solid or stra — finely strand for AWG cables f tightening torque for main contacts for auxiliary conta 	acts nded led with core end process	,						
 — solid or stra — finely strand for AWG cables f tightening torque for main contacts for auxiliary contacts 	nded led with core end process							
 finely strand for AWG cables f tightening torque for main contacts for auxiliary contact 	led with core end process		$2 \times (0.5 + 1.5 \text{ mm}^2) \times (0.75 + 0.5 \text{ mm}^2)$					
for AWG cables f tightening torque for main contacts for auxiliary contact					2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
tightening torque • for main contacts • for auxiliary contact		 finely stranded with core end processing for AWG cables for auxiliary contacts 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (20 16), 2x (18 14)				
 for main contacts for auxiliary contacts 	,		2X (20 10), 2X (10 14)					
 for auxiliary containing 				3 4.5 N·m				
,	 for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals 		0.8 1.2 N·m					
design of screwdriver			Diameter 5 6 mm					
size of the screwdrive		Pozidriv PZ 2						
	f the connection screw							
 for main contacts 			M6					
 of the auxiliary ar 			M3					
IEC 61508								
T1 value								
	rval or service life accordi	ng to IFC	20 a					
61508								
Electrical Safety								
protection class IP on	the front according to I	EC 60529	IP20					
touch protection on th	e front according to IEC	60529	finger-safe, for vertical contact from the front					
isplay								
display version for swite	hing status		Slide switch					
pprovals Certificates								
General Product App	oval							
UK CA	CE EG-Konf.			(Ļľ)	EHL			
For use in hazardous	locations		Test Certificates		Marine / Shipping			
IECEX	K ATEX	Miscellaneou	is <u>Special Test Certific-</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	ABS			
Marine / Shipping								
BUREAU VERITAS		Hoyd's Register Lits	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 par https://support.industry. Information- and Down https://www.siemens.co Industry Mall (Online of	<u>siemens.com/cs/ww/en/vi</u> nloadcenter (Catalogs, E <u>m/ic10</u>	Brochures,)	-3RU2136-4BB0 ?lang=en&mlfb=3RU2136-4BB0					

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

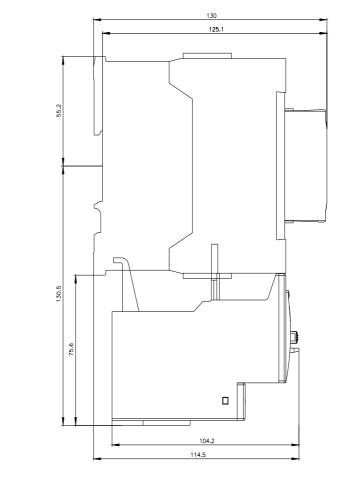
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4BB0

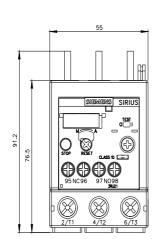
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4BB0&lang=en

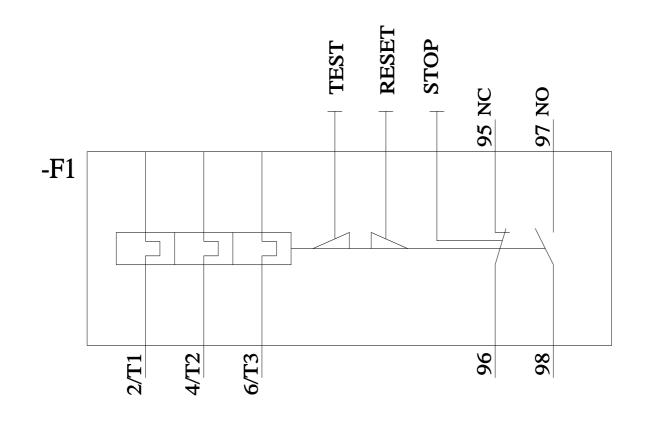
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4BB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4BB0&objecttype=14&gridview=view1







last modified:

4/5/2024 🖸