SIEMENS

Data sheet

3RU2136-4BB0

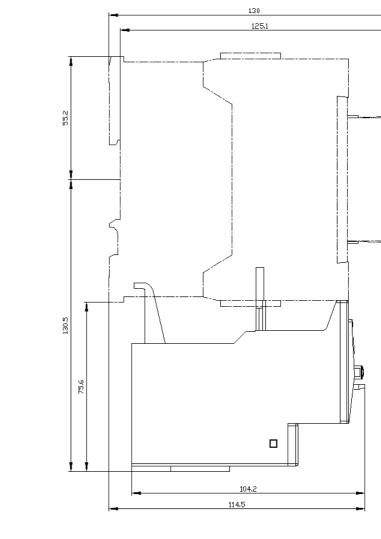


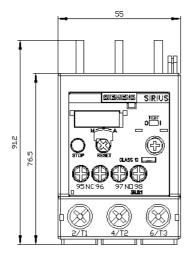
Overload relay 14...20 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

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 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 acc. 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 acc. to IEC 81346-2	F				
Substance Prohibitance (Date)	15.10.2014 00:00:00				
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-3 rated value maximum 	690 V				
operating frequency rated value	50 60 Hz				

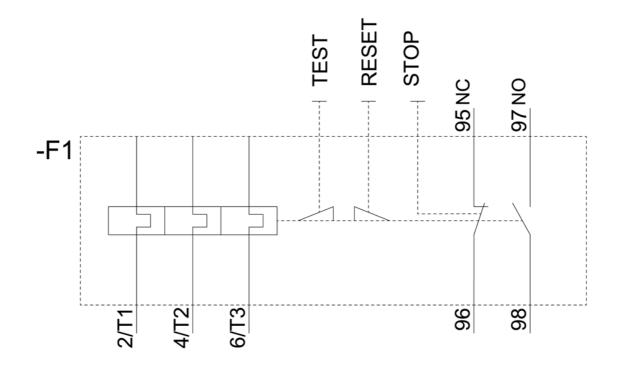
operational current rated value	20 A			
Auxiliary circuit				
design of the auxiliary switch	integrated			
number of NC contacts for auxiliary contacts	1			
• note	for contactor disconnection			
number of NO contacts for auxiliary contacts	1			
• note	for message "Tripped"			
number of CO contacts for 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			
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	trema			
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	20 A			
at 400 V rated value	20 A			
Short-circuit protection	207			
design of the fuse link				
for short-circuit protection of the auxiliary switch	fuse gG: 6 A, quick: 10 A			
required				
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 control circuit	No			
type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control circuit 	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 mm ²), 1x (1 50 mm ²)			
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
at AWG cables for main contacts	2x (18 2), 1x (18 1)			
type of connectable conductor cross-sections				
for auxiliary contacts	$2 \times (0.5 - 1.5 \text{ mm}^2) 2 \times (0.75 - 0.5 \text{ mm}^2)$			
— solid or stranded	$2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$			
 finely stranded with core end processing at AWC cables for auxiliany contacts 	2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)			
tightening torque				

- for main cont	a ata with a araw tura tarra	ingle	2	1.5 N·m			
	acts with screw-type term						
	ontacts with screw-type to						
design of screwdriver shaft			Diameter 5 6 mm Pozidriv PZ 2				
	ad of the connection sci	2014	FUZI				
•		ew	Me				
for main contacts			M6 M3				
of the auxiliary and control contacts				CIM			
Safety related data							
T1 value for proof test interval or service life acc. to IEC 61508			20 y				
protection class IP on the front acc. to IEC 60529 IP2			IP20	IP20			
touch protection o	touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front			
Display							
display version for s	witching status		Slide	switch			
Certificates/ approv	als						
General Product A					For use in hazardo	ous locations	
(Step		۹		EAC	Ex ATEX	IECE×	
Declaration of Conformity	Test Certificates			Marine / Shipping			
CE EG-Konf.	Special Test Certific- ate	<u>Type Test Ce</u> ates/Test Re		ABS	BUREAU VERITAS	Lloyds Register us	
Marine / Shipping					other	Railway	
PRS	RINA			DNV-GL	<u>Confirmation</u>	<u>Special Test Certific-</u> <u>ate</u>	
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Characteristic: Tripping characteristics, I ² t, 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							





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