SIEMENS

Data sheet

3RU2136-4EB0

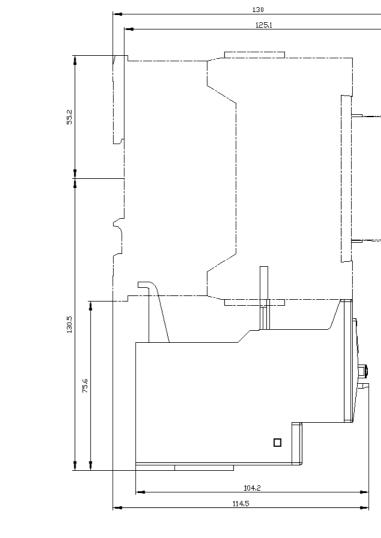


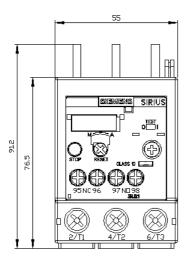
Overload relay 22...32 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

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	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				
 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	22 32 A			
operating voltage				
 rated value 	690 V			
 at AC-3 rated value maximum 	690 V			
operating frequency rated value	50 60 Hz			

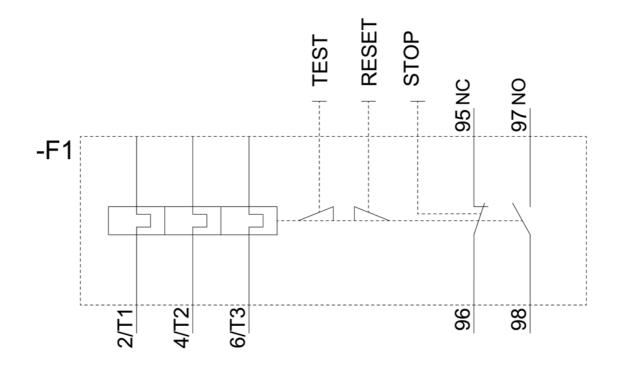
operational current rated value	32 A		
Auxiliary circuit			
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	1		
• note	for contactor disconnection		
number of NO contacts for auxiliary contacts	1		
• note	for message "Tripped"		
number of CO contacts for auxiliary 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 ● at 220 V	0.22 A		
	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	32 A		
 at 600 V rated value 	32 A		
Short-circuit protection			
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	$2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (4 - 25 mm^2), 1x (4 - 25 mm^2)$		
— finely stranded with core end processing	2x (1 25 mm ²), 1x (1 35 mm ²)		
at AWG cables for main contacts	2x (18 2), 1x (18 1)		
type of connectable conductor cross-sections			
 for auxiliary contacts — solid or stranded 	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)		
 — finely stranded with core end processing 	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²)		
 at AWG cables for auxiliary contacts 	2x (0.5 1.5 mm), 2x (0.75 2.5 mm) 2x (20 16), 2x (18 14)		
tightening torque			

- for main contacts with concur		2				
 for main contacts with screw- 			3 4.5 N·m			
for auxiliary contacts with scr	rew-type terminals		0.8 1.2 N·m			
size of the screwdriver tip	lesign of screwdriver shaft Diameter 5 6 mm size of the screwdriver tip Pozidriv PZ 2					
design of the thread of the conne	action corow	FUZIC				
0	ection screw	MG				
 for main contacts of the suviliary and control or 	antanta	M3	M6			
of the auxiliary and control co	oniacis	IVIS				
Safety related data						
T1 value for proof test interval or service life acc. to IEC 61508		20 y	20 у			
protection class IP on the front acc. to IEC 60529		IP20	IP20			
touch protection on the front acc	c. to IEC 60529	finge	finger-safe, for vertical contact from the front			
Display						
display version for switching status	;	Slide	switch			
Certificates/ approvals						
General Product Approval				For use in hazardo	ous locations	
		\mathbf{D}	EHC	K ATEX	IECEx	
Declaration of Conformity Test Certif	ficates		Marine / Shipping			
EG-Konf.			ABS	BUREAU VERITAS	Lloyds Register urs	
Marine / Shipping				other	Railway	
PRS RINA			DNV-GL	Confirmation	<u>Special Test Certific-</u> <u>ate</u>	
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