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] total typical	11 W
Insulation voltage with degree of pollution 3 rated	690 V
value	
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
 in networks with grounded star point between auxiliary and auxiliary circuit 	415 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
Protection class IP	

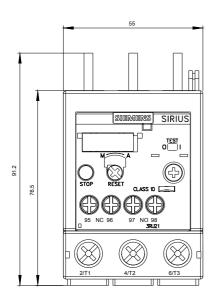
• on the front	IP20				
• of the terminal	IP00				
Shock resistance					
• acc. to IEC 60068-2-27	8g / 11 ms				
Recovery time					
 after overload trip with automatic reset typical 	10 min				
 after overload trip with remote-reset 	10 min				
 after overload trip with manual reset 	10 min				
Type 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				
Protection against electrical shock	finger-safe when touched vertically from front acc. to IEC 60529				
Reference code acc. to DIN EN 81346-2	F				
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					
Relative humidity during operation	0 90 %				
Main circuit	2				
Number of poles for main current circuit Adjustable pick-up value current of the current-	3 22 32 A				
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				
Operating current rated value	32 A				
Auxiliary circuit Design of the auxiliary switch	into mucho d				
	integrated				
 Number of NC contacts for auxiliary contacts Note 	1 for contactor disconnection				
Number of NO contacts for auxiliary contacts	I for message "Tripped"				
Note Number of CO contacts					
	0				
for auxiliary contacts	0				
Operating current of auxiliary contacts at AC-15 • at 24 V	3 A				

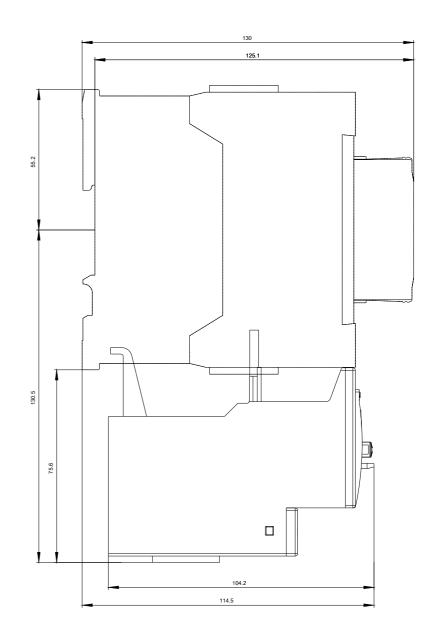
• at 110 V	3 A				
• at 120 V	3 A				
• at 125 V	3 A				
• at 230 V	2 A				
• at 400 V	1 A				
Operating current of auxiliary contacts at DC-13					
• at 24 V	2 A				
● at 60 V	0.3 A				
● at 110 V	0.22 A				
● at 125 V	0.22 A				
• at 220 V	0.11 A				
Design of the miniature circuit breaker					
 for 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 three-phase AC motor	32 A				
at 480 V rated value	32 A 32 A				
• at 600 V rated value	SZ 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				
Mounting type	Contactor mounting				
Height	90 mm				
Width	55 mm				
Depth	105 mm				
Required spacing					
 with side-by-side mounting 					
— forwards	10 mm				
	0 mm				
— forwards					
— forwards — Backwards	0 mm				
— forwards — Backwards — upwards	0 mm 10 mm				
— forwards — Backwards — upwards — downwards	0 mm 10 mm 10 mm				

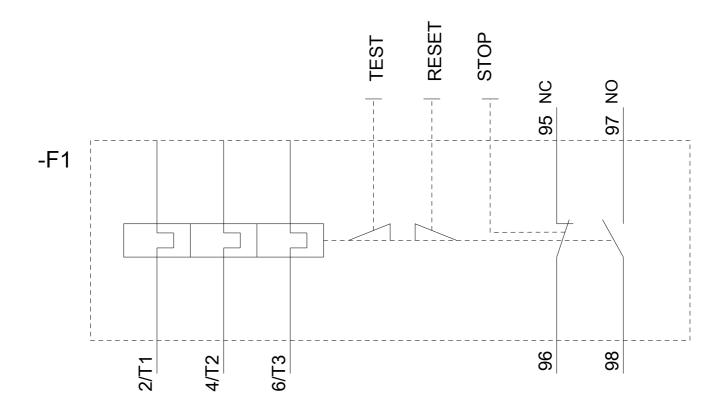
— Backwards	0 mm
— upwards	10 mm
— at the side	10 mm
— downwards	10 mm
• for live parts	
— forwards	10 mm
— Backwards	0 mm
— upwards	10 mm
— downwards	10 mm
— at the side	10 mm

Connections/ Terminals				
Product function				
 removable terminal for auxiliary and control circuit 	No			
Type of electrical connection				
 for main current circuit 	screw-type terminals			
 for auxiliary and control current circuit 	screw-type terminals			
Arrangement of electrical connectors for main current circuit	Top and bottom			
Type of connectable conductor cross-sections				
 for main contacts 				
— single or multi-stranded	2x (1 35 mm²), 1x (1 50 mm²)			
— finely stranded with core end processing	2x (1 25 mm²), 1x (1 35 mm²)			
 at AWG conductors for main contacts 	2x (18 2), 1x (18 1)			
Type of connectable conductor cross-sections				
 for auxiliary contacts 				
— single or multi-stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG conductors for auxiliary contacts 	2x (20 16), 2x (18 14)			
Tightening torque				
 for main contacts with screw-type terminals 	3 4.5 N·m			
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m			
Design of screwdriver shaft	Diameter 5 6 mm			
Size of the screwdriver tip	Pozidriv PZ 2			
Design of the thread of the connection screw				
• for main contacts	M6			
 of the auxiliary and control contacts 	M3			
Safety related data				
T1 value for proof test interval or service life acc. to IEC 61508	20 у			
Display				

 for switching 	g status	Slid	e switch			
tificates/ appr	ovals					
General Prod	uct Approval			For use in ha	For use in hazardous locations	
	CSA		EHC	κ ATEX	IECEX	
Declaration of Conformity Test Certificates		5	Marine / Shipping			
CE EG-Konf.	<u>Miscellaneous</u>	Type Test Certific- ates/Test Report	<u>Special Test Certi-</u> <u>ficate</u>	ABS	B U R E A U V E R I T A S	
Marine / Ship	ping				other	
Lloyd's Vegister LRS	PRS	RINA	RMRS	DNVGLCOM/AF	Confirmation	
her information ormation- and l w.siemens.com/s	Downloadcenter (Catal	ogs, Brochures,)	-		-	
	line ordering system) .siemens.com/mall/en/en/	Catalog/product?mlfb=3	RU2136-4EB0			
x online genera	ator nation.siemens.com/WW/0	CAXorder/default.aspx?l	ang=en&mlfb=3RU213	6-4EB0		
	(Manuals, Certificates, stry.siemens.com/cs/ww/e		s,)			
age database (product images, 2D dir on.siemens.com/bilddb/ca	mension drawings, 3D		uit diagrams, EPL	AN macros,)	
aracteristic: Tri	ipping characteristics, I stry.siemens.com/cs/ww/e	² t, Let-through curren	t			
	istics (e.g. electrical en					







last modified:

08/15/2019