SIEMENS

Data sheet

3RU2136-4RB1

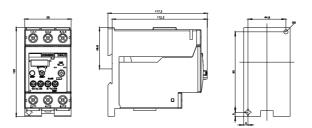


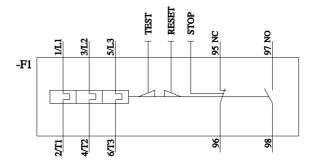
Overload relay 70...80 A Thermal For motor protection Size S2, Class 10A Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

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	18.9 W		
• per pole	6.3 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	70 80 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	80 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 0.22 A		
● at 110 V ● at 125 V	0.22 A		
• at 220 V	0.22 A 0.11 A		
design of the miniature circuit breaker for short-circuit	6A (SCC less than equal to 0.5 kA; U less than equal to 260V)		
protection of the auxiliary switch required			
contact rating of auxiliary contacts according to UL	B600 / R300		
Protective and monitoring functions			
trip class	CLASS 10A		
design of the overload release	thermal		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
 at 480 V rated value 	80 A		
• at 600 V rated value	80 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	stand-alone installation		
height	105 mm		
width	55 mm		
depth	117 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 mm²), 1x (1 50 mm²)		
 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			
— solid or stranded	2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²)		
— 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 (20 16), 2x (18 14)		
tightening torque			

- for main contacts with corow type torminals	2					
 for main contacts with screw-type terminals 		3 4.5 N·m				
for auxiliary contacts with screw-type termination of a provide the state of a second design of a secon		0.8 1.2 N·m				
design of screwdriver shaft size of the screwdriver tip		Diameter 5 6 mm Pozidriv PZ 2				
design of the thread of the connection screw	P02IC					
0	MG					
		M6				
of the auxiliary and control contacts	M3					
Safety related data		_				
T1 value for proof test interval or service life ac IEC 61508	est interval or service life acc. to 20 y					
protection class IP on the front acc. to IEC 60529		IP20				
touch protection on the front acc. to IEC 60529	finge	r-safe, for vertical con	tact from the front			
Display						
display version for switching status	Slide	switch				
Certificates/ approvals						
General Product Approval			For use in hazardo	ous locations		
	\sim					
(SP) (CC)	(ΨL)	FHI	⟨£x⟩	IECEx		
CSA CCC	UL		ATEX	IECEx		
Declaration of Conformity Test Certificates		Marine / Shipping				
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Marine / Shipping			other	Railway		
		STREPHIS ARC	Confirmation	Special Test Certific-		
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		DNV-GL				
PRS RINA	RMRS	Devisition				
Further information						
Information- and Downloadcenter (Catalogs, Brochures,) https://www.siemens.com/ic10						
Industry Mall (Online ordering system)						
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4RB1 Cax online generator						
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4RB1						
Service&Support (Manuals, Certificates, Characteristics, FAQs,)						
	https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RB1					
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12/15/2020 🕑