SIEMENS

Data sheet

3RU2136-4RB0



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

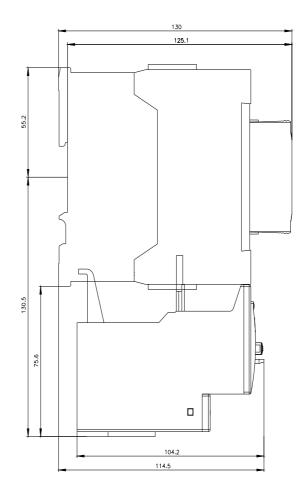
product brand name	SIRIUS		
product designation	thermal overload relay		
product type designation	3RU2		
General technical data	0102		
size of overload relay	S2		
size of contactor can be combined company-specific	S2		
power loss [W] for rated value of the current at AC in hot	18.9 W		
operating state			
• 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		
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		

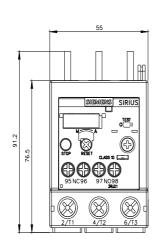
operational current rated value	80 A		
Auxiliary circuit			
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	1		
• note	for contactor disconnection		
number of NO contacts for auxiliary contacts	1		
• note	for message "Tripped"		
number of CO contacts for auxiliary 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 24 V	0.3 A		
• at 110 V	0.3 A		
• 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	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 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 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 (20 16), 2x (18 14)		
tightening torque			

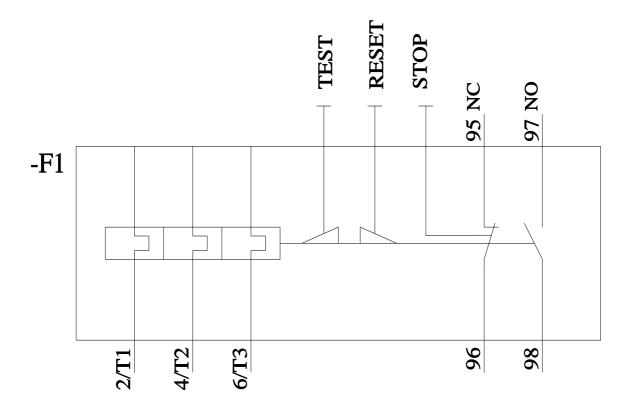
- for main contac	to with corow type torr	ninala	2 4 5 N m					
	ts with screw-type terr		3 4.5 N·m					
	tacts with screw-type	terminais	0.8 1.2 N·m					
design of screwdrive			Diameter 5 6 mm					
size of the screwdriv	•		Pozidriv PZ 2					
•	of the connection so	crew						
 for main contacts 			M6					
 of the auxiliary and control contacts 			M3					
Safety related data								
T1 value for proof test interval or service life acc. to IEC 61508			20 y					
protection class IP on the front acc. to IEC 60529 IP20			IP20					
touch protection on	ch protection on the front acc. to IEC 60529 f			finger-safe, for vertical contact from the front				
Display								
display version for sw	itching status		Slide switch					
Certificates/ approval	S							
General Product Ap	proval				For use in hazardo	ous locations		
	p							
SP C	CCC	(Ų) U	EA	[IECE×	K ATEX		
Declaration of Conf	ormity	Test Certifica	tes		Marine / Shipping			
CE EG-Konf.	<u>UK Declaration of</u> <u>Conformity</u>	<u>Special Test Ce</u> <u>ate</u>	rtific- <u>Type Test</u> ates/Test		ABS	BUREAU VERITAS		
Marine / Shipping						other		
Lloyd's Register urs	PRS	RINA	RMR	ð	DNV-GL DNV-GL	<u>Confirmation</u>		
Railway								
Special Test Certific- ate								
Further information	wnloadcenter (Catalo	oas. Brochures	.)					
https://www.siemens. Industry Mall (Online	Information- and Downloadcenter (Catalogs, Brochures,) <u>https://www.siemens.com/ic10</u> Industry Mall (Online ordering system)							
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4RB0 Cax online generator								
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4RB0								
	Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
https://support.industr Image database (pro	y.siemens.com/cs/ww oduct images, 2D dim	/en/ps/3RU2136-4 ension drawings	4 <u>RB0</u> s, 3D models, devi	ce circuit di	iagrams, EPLAN ma	acros,)		
http://www.automation	<u>n.siemens.com/bilddb/</u>	cax_de.aspx?mlft	<u>=3RU2136-4RB0&</u>	lang=en	· · · · ·	-		
Characteristic: Tripping characteristics, I ² t, Let-through current								

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4RB0&objecttype=14&gridview=view1







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