SIEMENS

Data sheet

3RU2136-4JB0



Overload relay 54...65 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

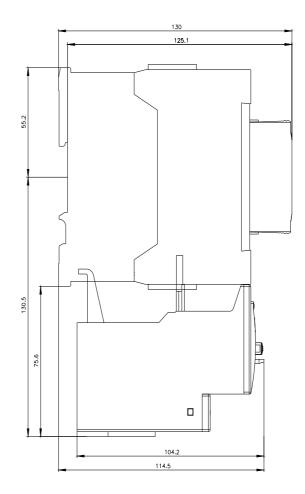
product brand name	SIRIUS				
product designation	thermal overload relay				
product type designation	3RU2				
General technical data					
size of overload relay	S2				
size of contactor can be combined company-specific	S2				
power loss [W] for rated value of the current at AC in hot operating state	15.6 W				
• per pole	5.2 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	54 65 A				
operating voltage					
 rated value 	690 V				
 at AC-3 rated value maximum 	690 V				
operating frequency rated value	50 60 Hz				

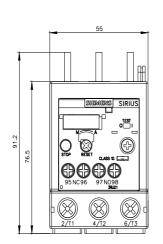
operational current rated value	65 A		
Auxiliary circuit			
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	1		
• note	for contactor disconnection		
number of NO contacts for auxiliary contacts	1		
• note	for message "Tripped"		
number of CO contacts for auxiliary 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			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	65 A		
at 600 V rated value	65 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 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			

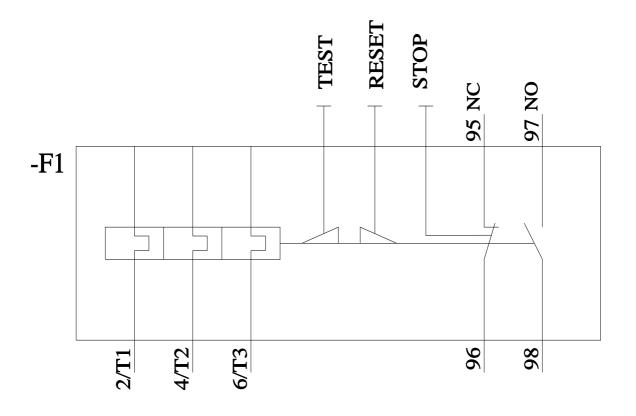
- for main contact		ninele	2 4 E M m				
for main contacts with screw-type terminals			3 4.5 N·m				
for auxiliary contacts with screw-type terminals			0.8 1.2 N·m				
design of screwdriver shaft			Diameter 5 6 mm				
size of the screwdriv	•		Pozidriv PZ 2				
design of the thread of the connection screw							
 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				
protection class IP on the front acc. to IEC 60529		IP20					
touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front				
Display	Display						
display version for swit	tching status		Slide switch				
Certificates/ approvals	-						
General Product App				For use in hazardo	ous locations		
Ceneral Froduct App	510441						
		(UL)	EHC	KEx ATEX	IECEx IECEx		
Declaration of Confo	ormity	Test Certifica	ites	Marine / Shipping			
EG-Konf.	<u>Conformity</u>	<u>ates/Test Re</u>	<u>port ate</u>	ABS	BUREAU VERITAS		
Marine / Shipping					other		
Lloyds Register urs	PRS	RINA	RMRS	DNV-GL DWSLCDED	<u>Confirmation</u>		
Railway							
<u>Special Test Certific-</u> <u>ate</u>							
Further information	vnloadcenter (Catalo	ogs. Brochures.)				
Information- and Downloadcenter (Catalogs, Brochures,) <u>https://www.siemens.com/ic10</u> Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/on/Catalog/aradust2mlfb=2DU2126_4_ID0							
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4JB0 Cax online generator							
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4JB0 Service&Support (Manuals, Certificates, Characteristics, FAQs,)							
https://support.industry Image database (proc	duct images, 2D dim	ension drawing	s, 3D models, device circu	iit diagrams, EPLAN ma	acros,)		
	http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4JB0⟨=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/3RU2136-4JB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4JB0&objecttype=14&gridview=view1







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