SIEMENS

Data sheet

3RU2136-4AB0



Overload relay 11...16 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	10.5 W
• per pole	3.5 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 according 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 according to IEC 81346-2	F
Substance Prohibitance (Date)	10/15/2014
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	11 16 A
operating voltage	
 rated value 	690 V
 at AC-3e rated value maximum 	690 V
operating frequency rated value	50 60 Hz

operational current rated value	16 A
operational current at AC-3e at 400 V rated value	16 A
operating power	
• at AC-3	
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
• at AC-3e	
— at 400 V rated value	7.5 kW
— at 500 V rated value	7.5 kW
— at 690 V rated value	11 kW
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 24 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 125 V • at 230 V	2 A
• at 200 V	1A
	IA
operational current of auxiliary contacts at DC-13 ● at 24 V	2 A
• at 24 V • at 60 V	0.3 A
• at 110 V	0.22 A 0.22 A
• at 125 V	
• 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 	16 A
 at 600 V rated value 	16 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	corou turo terminale
for main current circuit for auxiliary and control 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 contact 	rts					
— solid or st		2x (1 35 mm²), 1x (1 50	mm²)		
— finely stranded with core end processing			2x (1 25 mm²), 1x (1 35 mm²)			
-	for main contacts		2x (18 2), 1x (18 1)			
	conductor cross-sections		10 2), 1x (10 1)			
 for auxiliary co 						
- solid or stranded		2x ($0.5 1.5 \text{ mm}^2$ 2x (0.75	2.5 mm ²)		
 — finely stranded with core end processing 			2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG cables for auxiliary contacts 			2x (0.5 1.5 mini), 2x (0.75 2.5 mini) 2x (20 16), 2x (18 14)			
			20 10), 2X (10 14)			
 tightening torque for main contacts with screw-type terminals 		2	3 4.5 N·m			
for auxiliary contacts with screw-type terminals			0.8 1.2 N·m Diameter 5 6 mm			
design of screwdriver shaft size of the screwdriver tip			idriv PZ 2			
	•	F 02				
 for main contact 	design of the thread of the connection screw					
		M6				
	and control contacts	M3				
Safety related data		_				
T1 value for proof tes IEC 61508	st interval or service life accordir	ng to 20 y	/			
protection class IP	on the front according to IEC	IP20	0			
60529	the front according to IEC CO)520 fing	or acts for vortical conta	at from the front		
-	the front according to IEC 60	1529 IIIIg	er-safe, for vertical conta	ct from the from		
Display						
display version for sv	-	Slid	e switch			
Certificates/ approva	ls					
General Product A	pproval				For use in hazard- ous locations	
		opfirmation	•		_	
SP Car		onfirmation		EHC	K ATEX	
For use in hazard- ous locations	Contraction of Conformity	onfirmation	UL UL Test Certificates	EHC	Marine / Shipping	
	CCC	JK	Test Certificates Special Test Certificates ate	Efficiency Type Test Certificates/Test Report	Marine / Shipping	
ous locations	CCC		Special Test Certific-		Marine / Shipping	
ous locations	CCC		Special Test Certific-		Marine / Shipping	
ous locations	CCC Declaration of Conformity CCC EG-Konf.		Special Test Certific-		KARS	
ous locations	Declaration of Conformity		Special Test Certific-		KARS	
ous locations	CCC Declaration of Conformity CCC EG-Konf.		Special Test Certific-		KARS	

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=3RU2136-4AB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4AB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4AB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

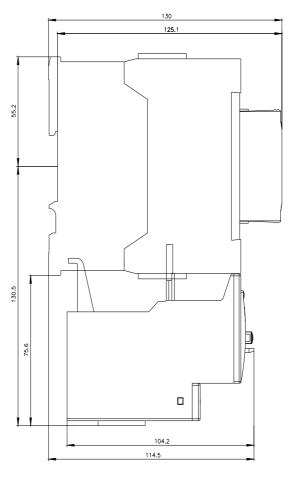
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4AB0&lang=en

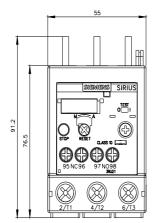
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4AB0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4AB0&objecttype=14&gridview=view1





last modified:

