SIEMENS

Data sheet

3RU2136-4RD0



Overload relay 70...80 A Thermal For motor protection Size S2, Class 10A Contactor mounting Main circuit: Screw Auxiliary circuit: spring-type terminal 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 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	70 80 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	80 A
operational current at AC-3e at 400 V rated value	80 A
operating power	
• at AC-3	
— at 400 V rated value	37 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 kW
• at AC-3e	
— at 400 V rated value	37 kW
— at 500 V rated value	55 kW
— at 690 V rated value	75 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 230 V • at 400 V	1A
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 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	No
and control circuit	
type of electrical connection	
for main current circuit	screw-type terminals
for auxiliary and control circuit	spring-loaded terminals
arrangement of electrical connectors for main current circuit	Top and bottom
type of connectable conductor cross-sections	

 for main contact 	te					
— solid or str		2	$1 \times (1 - 35 \text{ mm}^2) \times (1 - 5)$) mm ²)		
	nded with core end processing		2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²)			
	for main contacts	-	2x (1 2) fill(7), fx (1 35 fill(7) 2x (18 2), fx (18 1)			
	conductor cross-sections	2				
 for auxiliary cor 						
- solid or str		2	2x (0.5 2.5 mm²)			
 finely stranded with core end processing 						
 — finely stranded with core end processing — finely stranded without core end processing 		-	2x (0.5 1.5 mm ²)			
		•	2x (0.5 2.5 mm ²)			
at AWG cables for auxiliary contacts tightening torque		2	2x (20 14)			
for main contacts with screw-type terminals			3 4.5 N·m			
design of screwdriver shaft			Diameter 5 6 mm			
size of the screwdriver tip		P	Pozidriv PZ 2			
design of the thread of the connection screw						
 for main contact 	its	IV	16			
Safety related data						
T1 value for proof tes IEC 61508	t interval or service life accord	ding to 2	0 y			
protection class IP o 60529	on the front according to IE	C IF	P20			
touch protection on	the front according to IEC	60529 fi	nger-safe, for vertical conta	act from the front		
Display						
display version for sw	ritching status	S	Blide switch			
Certificates/ approval	S					
					For use in hazard-	
General Product Ap	oproval				ous locations	
	Confirmation		-			
S.	Commation	3		EHC	KEx ATEX	
For use in hazard- ous locations	Declaration of Conformity	CCC V	UL UL Test Certificates	EHC	Marine / Shipping	
		y EG-Konf.	Test Certificates Type Test Certificates Type Test Certificates	Effe Special Test Certific- ate	Marine / Shipping	
ous locations	Declaration of Conformity	CE	Type Test Certific-		Marine / Shipping	
ous locations	Declaration of Conformity	CE	Type Test Certific-		Marine / Shipping	
ous locations	Declaration of Conformity	CE	Type Test Certific-		Marine / Shipping	
ous locations	Declaration of Conformity	EG-Konf.	Type Test Certific-		KARS	
ous locations	Declaration of Conformity	EG-Konf.	Type Test Certific-		KARTINE / Shipping	
ous locations	Declaration of Conformity	EG-Konf.	Type Test Certific-		KARTINE / Shipping	

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=3RU2136-4RD0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4RD0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD0

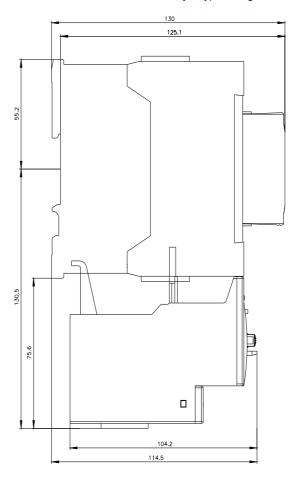
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <u>http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4RD0&lang=en</u>

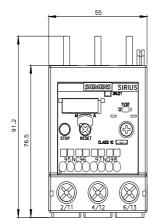
Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4RD0&objecttype=14&gridview=view1





last modified:

