SIEMENS

Data sheet

3RU2136-4RD1



Overload relay 70...80 A Thermal For motor protection Size S2, Class 10A Stand-alone installation 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 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		
• 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 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	arrow two terminals		
for main current circuit	screw-type terminals		
for auxiliary and control circuit arrangement of electrical connectors for main current	spring-loaded terminals Top and bottom		
circuit			
type of connectable conductor cross-sections			
for main contacts solid or stranded	$2x(1 - 35 \text{ mm}^2) + x(1 - 50 \text{ mm}^2)$		
 — solid or stranded — finely stranded with core end processing 	2x (1 35 mm²), 1x (1 50 mm²) 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 2.5 mm²)		
 finely stranded with core end processing 	2x (0.5 1.5 mm ²)		
— finely stranded without core end processing	2x (0.5 2.5 mm ²)		
• at AWG cables for auxiliary contacts	2x (20 14)		

tightening torque						
 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			Pozidriv PZ 2			
design of the thread	d of the connection scr	ew				
for main contacts			M6			
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 6	0529	finger-safe, for vertical contact from the front			
Display						
display version for sw	vitching status		Slide switch			
Certificates/ approva	ls					
General Product A	oproval			For use in hazardo	ous locations	
Declaration of		Ű		ATEX	IECEx	
Conformity	Test Certificates		Marine / Shipping			
CE EG-Konf.	Special Test Certific- ate	<u>Type Test Cer</u> ates/Test Rep		B UREAU VERITAS	Lloyd's Register urs	
Marine / Shipping				other	Railway	
PRS	RINA	KMRS RMRS	CINV-GL CINV-GL	<u>Confirmation</u>	<u>Special Test Certific</u> <u>ate</u>	
Further information						

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=3RU2136-4RD1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4RD1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD1

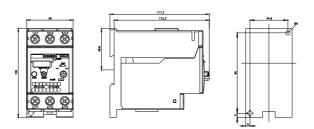
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

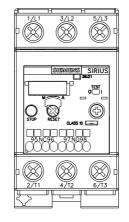
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4RD1&lang=en

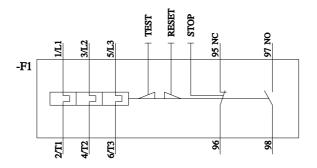
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4RD1&objecttype=14&gridview=view1







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