SIEMENS

Data sheet

3RU2136-4GD1



Overload relay 36...45 A Thermal For motor protection Size S2, Class 10 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	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 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	36 45 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	45 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	0.22 A		
• at 125 V	0.22 A		
• at 220 V	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 10		
design of the overload release	thermal		
UL/CSA ratings			
full-load current (FLA) for 3-phase AC motor			
• at 480 V rated value	45 A		
• at 600 V rated value	45 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			
 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 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	0v (0 E _ 0 E mm ²)		
— solid or stranded	2x (0.5 2.5 mm ²)		
 finely stranded with core end processing 	$2x (0.5 \dots 1.5 \text{ mm}^2)$		
 finely stranded without core end processing at AWG cables for auxiliary contacts 	$2x (0.5 \dots 2.5 \text{ mm}^2)$		
 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					
	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	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 sv	vitching status		Slide switch				
Certificates/ approva	-	· · · · · · · · · · · · · · · · · · ·					
General Product A				For use in hazardo			
General Froduct A	ppioval						
		(ل س	EHC	ATEX	IECEx IECEx		
Declaration of Conformity	Test Certificates		Marine / Shipping	I			
CE EG-Konf.	Special Test Certific- ate	<u>Type Test Cer</u> <u>ates/Test Re</u> p		B UREAU VERITAS	Llovds Register urs		
Marine / Shipping				other	Railway		
PRS	RINA	KMRS RARS		<u>Confirmation</u>	Special Test Certific- ate		
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=3RU2136-4GD1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4GD1

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GD1

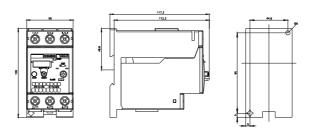
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

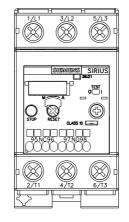
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4GD1&lang=en

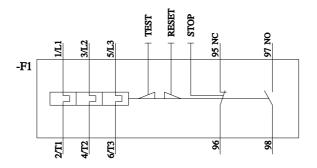
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GD1/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4GD1&objecttype=14&gridview=view1







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