SIEMENS

Data sheet

3RU2136-4GD0



Overload relay 36...45 A Thermal For motor protection Size S2, Class 10 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	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 0 2 A		
• at 60 V	0.3 A 0.22 A		
● at 110 V ● at 125 V	0.22 A 0.22 A		
• at 220 V	0.12 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	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	spring-loaded terminals		
arrangement of electrical connectors for main current circuit	Top and bottom		
type of connectable conductor cross-sections			
for main contacts colid or stranded	$2x/(1 - 25 \text{ mm}^2) + x/(1 - 50 \text{ mm}^2)$		
— solid or stranded	$2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (1 25 mm^2) 1x (1 25 mm^2)$		
 finely stranded with core end processing at AWG cables for main contacts 	2x (1 25 mm ²), 1x (1 35 mm ²)		
at AWG cables for main contacts type of connectable conductor cross-sections	2x (18 2), 1x (18 1)		
 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			0				
for main contacts with screw-type terminals			3 4.5 N·m				
design of screwdriver shaft			Diameter 5 6 mm				
size of the screwdri			Pozidriv PZ 2				
•	l of the connection sc	rew					
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	60529	finger-safe, for vertical contact from the front				
Display							
display version for sv	vitching status		Slide switch				
Certificates/ approva	ls						
General Product Ap	oproval			For use in hazardo	For use in hazardous locations		
		U	EHC	IECEx	ATEX		
Declaration of Conformity	Test Certificates		Marine / Shipping				
CE EG-Konf.	Type Test Certific- ates/Test Report	<u>Special Test Ce</u> ate	ertific- ABS	BUREAU VERITAS	Lloyds Register uxs		
Marine / Shipping				other	Railway		
PRS	RINA	KMRS	DNV-GL DNV-GL	<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=3RU2136-4GD0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4GD0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GD0

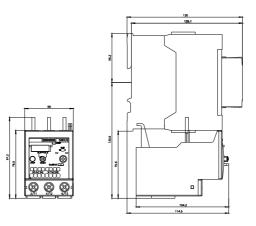
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

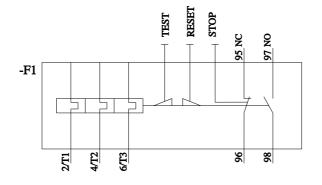
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4GD0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4GD0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4GD0&objecttype=14&gridview=view1





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