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	
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 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	36 45 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	45 A
operational current at AC-3e at 400 V rated value	45 A
operating power	
• at AC-3	
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 kW
• at AC-3e	
— at 400 V rated value	22 kW
— at 500 V rated value	30 kW
— at 690 V rated value	37 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 • 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 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 400 V rated value at 600 V rated value	45 A 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	Top and bottom
circuit type of connectable conductor cross-sections	
INDE OF CONDECISION CONDUCTOR CLOSS-SECTIONS	

 for main contact 	ato.				
colid or et			$2x/(1 - 25 mm^2) + 1x/(1 - 5)$	0 mm²)	
 — 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)		
•	for main contacts	•	2x (1 25 mm ⁻), 1x (1 35 mm ⁻) 2x (18 2), 1x (18 1)		
	conductor cross-section		2x (10 2), 1x (10 1)		
 for auxiliary cor 		115			
- solid or str			2x (0.5 2.5 mm²)		
 finely stranded with core end processing 					
 — finely stranded with core end processing — finely stranded without core end processing 		-	$2x (0.5 \dots 1.5 \text{ mm}^2)$		
 at AWG cables for auxiliary contacts 		•	2x (0.5 2.5 mm ²)		
tightening torque			2x (20 14)		
for main contacts with screw-type terminals			2 4 5 N m		
		3 4.5 N·m			
design of screwdriver shaft			Diameter 5 6 mm Pozidriv PZ 2		
size of the screwdriver tip		POZIUTIV PZ Z			
design of the thread of the connection screw			MC		
 for main contact 	XS		M6		
Safety related data					
T1 value for proof tes IEC 61508	t interval or service life ac	cording to	20 у		
protection class IP o 60529	on the front according to	IEC	IP20		
touch protection on	the front according to I	EC 60529	finger-safe, for vertical conta	act from the front	
Display					
display version for sw	vitching status	_	Slide switch		
Certificates/ approval	-				
					For use in hazard-
General Product Ap	oproval				ous locations
SÐ	Confirmation	(\mathbf{x})	ա	101	IECEx
CSA		CCC		LIIL	IECEx
For use in hazard- ous locations	Declaration of Confor	ccc	Test Certificates	LIIL	IECE×
		ccc	UL Test Certificates	LIIL	
	Declaration of Confor	mity CCC EG-Konf.	UL Test Certificates Type Test Certific- ates/Test Report	LIIL Special Test Certific- ate	
		CE	Type Test Certific-		
ous locations		CE	Type Test Certific-		
ous locations		CE	Type Test Certific-		
ous locations	UK CA	EG-Konf.	Type Test Certific-		
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ous locations	UK CA	EG-Konf.	Type Test Certific-		

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

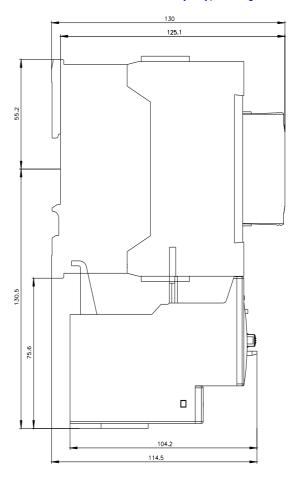
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4GD0&lang=en

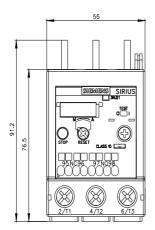
Characteristic: Tripping characteristics, I²t, Let-through current

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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