SIEMENS

Data sheet

3RU2136-4QD0



Overload relay 47...57 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	\$2
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	47 57 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	57 A
operational current at AC-3e at 400 V rated value	57 A
operating power	
• at AC-3	
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 kW
• at AC-3e	
— at 400 V rated value	30 kW
— at 500 V rated value	37 kW
— at 690 V rated value	55 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 250 V	1A
	TA
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 10
design of the overload release	thermal
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	57 A
 at 600 V rated value 	57 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 	ts					
— solid or str			2x (1 35 mm²), 1x (1 .	50 mm ²)		
	nded with core end proces	ssina	2x (1 25 mm ²), 1x (1 35 mm ²)			
-	for main contacts		2x (18 2), 1x (18 1)			
type of connectable	conductor cross-sectio	ns				
 for auxiliary cor 						
— solid or str			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	design of the thread of the connection screw					
 for main contact 	ts		M6			
Safety related data						
T1 value for proof tes IEC 61508	T1 value for proof test interval or service life according to		20 у			
	on the front according to	IEC	IP20			
	the front according to II	EC 60529	finger-safe, for vertical of	ontact from the front		
Display			iniger cale, ier ferdeare			
display version for sw	vitching status		Slide switch			
Certificates/ approval	-					
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General Product Ap	proval				ous locations	
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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=3RU2136-4QD0 Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4QD0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QD0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4QD0&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4QD0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4QD0&objecttype=14&gridview=view1

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