SIEMENS

Data sheet 3RU2136-4RD0



Overload relay 70...80 A Thermal For motor protection Size S2, Class 10A Contactor mounting Main circuit: Screw Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

product type designation product type designation 3RU2 General technical data size of overload relay size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state per pole per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for protective separation in networks with grounded star point between auxiliary and auxiliary circuit between main and auxiliary circuit 690 V
size of overload relay size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state • per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • 690 V
size of overload relay size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state ● per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for protective separation in networks with grounded star point ● between auxiliary and auxiliary circuit ● between main and auxiliary circuit ● 690 V
size of contactor can be combined company-specific power loss [W] for rated value of the current at AC in hot operating state • per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit
power loss [W] for rated value of the current at AC in hot operating state • per pole insulation voltage with degree of pollution 3 at AC rated value • between auxiliary and auxiliary circuit • between main and auxiliary circuit • 690 V
operating state
insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit 690 V
surge voltage resistance rated value maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit • between main and auxiliary circuit 690 V
maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit 690 V
networks with grounded star point • between auxiliary and auxiliary circuit • between auxiliary and auxiliary circuit • between main and auxiliary circuit 690 V
 between auxiliary and auxiliary circuit between main and auxiliary circuit 690 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
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
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 80 A
operational current at AC-3e at 400 V rated value 80 A
operating power

• at AC-3		
— at 400 V rated value	37 kW	
— at 500 V rated value	55 kW	
— at 690 V rated value	75 kW	
• at AC-3e		
— at 400 V rated value	37 kW	
— at 500 V rated value	55 kW	
— at 690 V rated value	75 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 110 V	3 A	
• at 120 V	3 A	
• at 125 V	3 A	
• at 230 V	2 A	
• at 400 V	1 A	
• at 690 V	0.75 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	2000 / 11000	
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 400 V rated value 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	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		
for main contacts		
	2v (1 35 mm²) 1v (1 50 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)	
micry stranged with core end processing		
 for 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 mm²)		
 finely stranded without core end processing 	2x (0.5 2.5 mm²)		
 for 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 of the connection screw			
• for main contacts	M6		
Safety related data			
T1 value for proof test interval or service life according to IEC 61508	20 a		
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
Display			
display version for switching status	Slide switch		
Certificates/ approvals			
General Product Approval		For use in hazardous locations	

Declaration of Conformity

Test Certificates

Marine / Shipping



Confirmation



Type Test Certificates/Test Report

Special Test Certificate





IECEx

Marine / Shipping

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Confirmation

other

Railway

Special Test Certificate

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

 $\underline{\text{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4RD0}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4RD0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD0

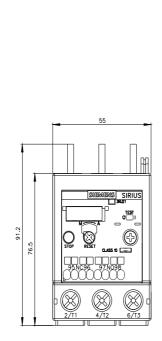
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2136-4RD0&lang=en

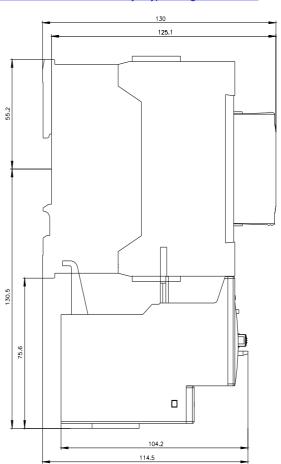
Characteristic: Tripping characteristics, I²t, Let-through current

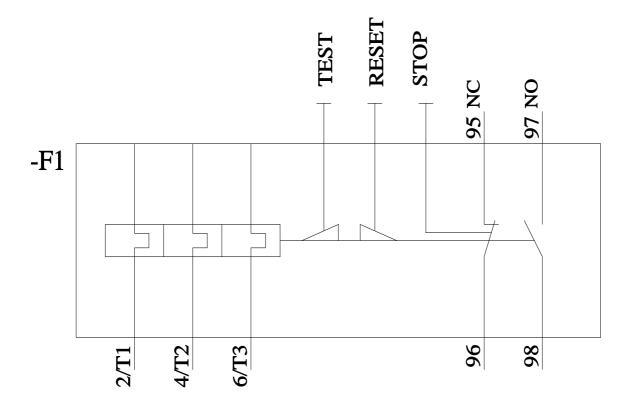
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4RD0/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4RD0&objecttype=14&gridview=view1







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