SIEMENS

Data sheet 3RU2136-4ED0



Overload relay 22...32 A Thermal For motor protection Size S2, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

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 • per pole 4.6 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6kV maximum permissible voltage for protective separation in networks with grounded star point • between auxiliary and auxiliary circuit 415 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 0000 mr.	
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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 32 A	
operational current at AC-3e at 400 V rated value 32 A	
operating power	

# at 000 V rated value	• at AC-3			
		15 NM		
at 300 V rated value				
		30 KVV		
		AE IAM		
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts 1 for message "Tripped" number of CC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 • 18 10 V • 18 110 V • 18 110 V • 18 120 V • 18 120 V • 18 1400 V • 18 1400 V • 18 150 V • 18 1				
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number of NC contacts for auxiliary contacts • note				
• note number of NO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15 • alt 24 V • alt 110 V • alt 120 V • alt 120 V • alt 120 V • alt 230 V • alt 230 V • alt 260 V • alt 260 V • alt 260 V • alt 274 V • alt 274 V • alt 275 V				
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• at 120 V • at 125 V 3 A 3				
e at 125 V e at 230 V e at 240 V e at 490 V e at 690 V e at 690 V e at 110 V e at 690 V e at 110 V e at 125 V e at 125 V e at 125 V e at 125 V e at 220 V e at 126 V e at 220 V				
at 230 V at 400 V 1 A beta 90 V 0 ret 400 V 1 A 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 contact rating of auxiliary contacts according to UL 8600 / R300 Protective and monitoring functions trip class CLASS 10 design of the overload release UL-CSA ratings UL-CSA ratings UL-CSA ratings Tull-load current (FLA) for 3-phase AC motor at 480 V rated value 32 A 32 A 32 A 34 600 V rated value 32 A Short-circuit protection of the auxiliary switch required fastening method design of the fuse link of or short-circuit protection of the auxiliary switch required fastening method Contactor mounting width 55 mm depth Connections / Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections of remain current circuit for main current circuit circuit vpe of connectable conductor cross-sections of remain contacts — solid or stranded — finely stranded with core end processing 2 x (1 35 mm²), 1x (1 50 mm²) - x (1 35 mm²), 1x (1 50 mm²) - x (1 25 mm²), 1x (1 50 mm²) - x (1 25 mm²), 1x (1 50 mm²) - x (1 25 mm²), 1x (1 50 mm²) - x (1 25 mm²), 1x (1 50 mm²) - x (1 25 mm²), 1x (1 50 mm²) - x (1 25 mm²), 1x (1 50 mm²) - x (1 25 mm²), 1x (1 50 mm²)				
at 400 V at 600 V at 600 V at 600 V at 600 V at 124 V at 60 V at 110 V at 110 V at 125 V at 125 V at 220 V				
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operational current of auxiliary contacts at DC-13 • at 24 V • at 160 V • at 110 V • at 125 V • at 1220 V design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required the auxiliary south or steady and monitoring functions trip class CLASS 10 design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 32 A Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position any fastening method height 90 mm width 55 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connectors for main current circuit • for auxiliary and control circuit spring-loaded terminals - solid or standed - finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) - trip (12 35 mm²), 1x (1 50 mm²) - trip (2x 35 mm²), 1x (1 50 mm²) - trip (2x 25 mm²), 1x (1 35 mm²), 1x (1 35 mm²)				
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product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing No No No No No No Screw-type terminals Top and bottom Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 35 mm²)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm		
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing screw-type terminals screw-type terminals Top and bottom 2 x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 35 mm²)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm		
 for main current circuit for auxiliary and control circuit spring-loaded terminals Top and bottom type of connectable conductor cross-sections for main contacts solid or stranded finely stranded with core end processing screw-type terminals spring-loaded terminals Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm		
 ◆ for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections ◆ for main contacts — solid or stranded — finely stranded with core end processing spring-loaded terminals Top and bottom 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 35 mm²), 1x (1 35 mm²) 	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm		
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm		
type of connectable conductor cross-sections	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm		
type of connectable conductor cross-sections	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No		
 for main contacts — 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) 	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No screw-type terminals spring-loaded terminals		
— 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)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No screw-type terminals spring-loaded terminals		
— finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No screw-type terminals spring-loaded terminals		
	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No screw-type terminals spring-loaded terminals Top and bottom		
• tor AWG cables for main contacts 2x (18 2), 1x (18 1)	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded	32 A 32 A fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No screw-type terminals spring-loaded terminals Top and bottom 2x (1 35 mm²), 1x (1 50 mm²)		
	design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing	fuse gG: 6 A, quick: 10 A any Contactor mounting 90 mm 55 mm 105 mm No screw-type terminals spring-loaded terminals Top and bottom $2x (1 35 mm^2), 1x (1 50 mm^2)$ $2x (1 25 mm^2), 1x (1 35 mm^2)$		

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	

ccc

Confirmation









Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

Lloyd Registe







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)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2136-4ED0}$

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2136-4ED0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4ED0

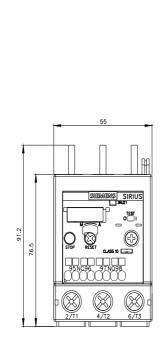
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax de.aspx?mlfb=3RU2136-4ED0&lang=en

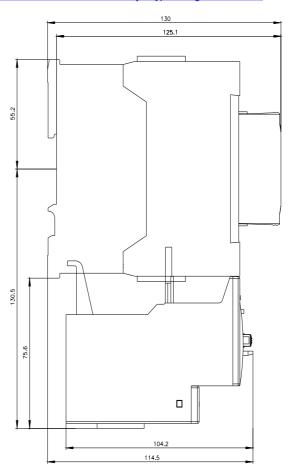
Characteristic: Tripping characteristics, I²t, Let-through current

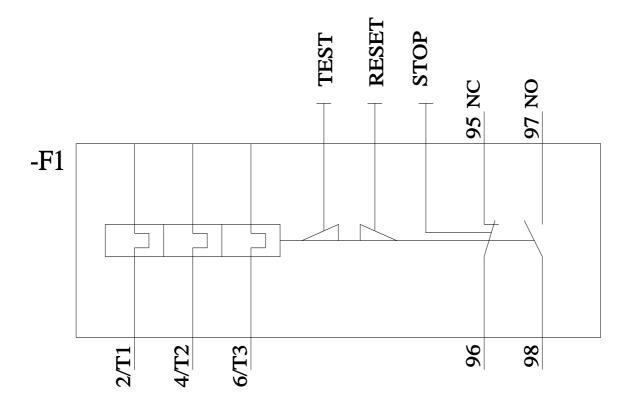
https://support.industry.siemens.com/cs/ww/en/ps/3RU2136-4ED0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2136-4ED0&objecttype=14&gridview=view1







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