SIEMENS

Data sheet

3RU2136-1KB0

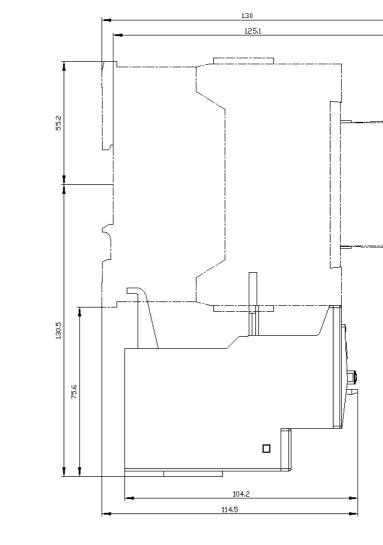


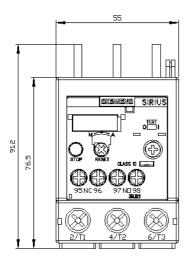
Overload relay 9...12.5 A Thermal For motor protection Size S2 Class 10 Contactor mounting Main circuit: screw terminal Auxiliary circuit: screw terminal Manual-Automatic-Reset

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	7.5 W			
• per pole	2.5 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)	08.09.2017 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	9 12.5 A			
operating voltage				
rated value	690 V			
 at AC-3 rated value maximum 	690 V			
operating frequency rated value	50 60 Hz			

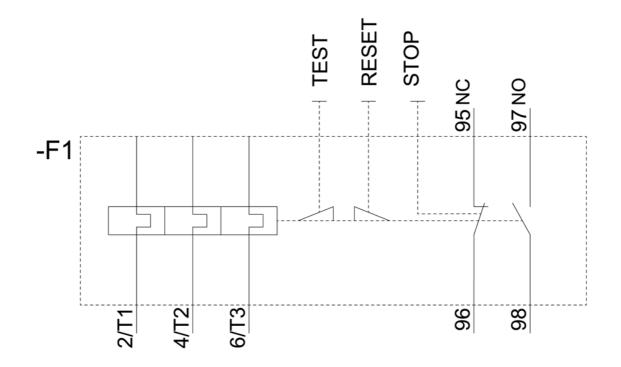
Auminer of the auxiliary contacts integrated design of the auxiliary contacts 1 • note for contacts for auxiliary contacts 1 • note for contacts for auxiliary contacts • note for contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 0 • alt 24 v 3 A • at 120 v 3 A • at 24 v 3 A • at 24 v 3 A • at 24 v 3 A • at 25 v 3 A • at 24 v 2 A • at 25 v 3 A • at 25 v 3 A • at 24 v 2 A • at 25 v 0 2 A • at 30 v rated auting watch required 0 CASIO Protection af mouthoring funchorequired 0 CASIO	operational current rated value	12.5 A
design of the auxiliary sorticuts integrated number of NG contacts for auxiliary contacts i i roli for contactor disconnection i roli for contactor disconnection i roli integrated i roli for contactor disconnection i roli for message "Tripped" i roli for roli i roli	•	
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 • at 24 V 3 A • at 12 V 3 A • at 24 V 3 A • at 25 V 3 A • at 24 V 3 A • at 25 V 3 A • at 25 V 3 A • at 24 V 2 A • at 24 V 2 A • at 24 V 2 A • at 25 V 0.3 A • at 25 V 0.22 A • at 25 V 0.22 A • at 25 V 0.22 A • at 25 V 0.11 A design of the ministure circuit breaker for short circuit prefers for auxiliary contacts according to UL Protectiva and monotoring functions Etrip class ful-dad current (FLA) for 3-phase AC motor 12.5 A • at 400 V rated value 12.5 A • at 400 V rated value 12.5 A • at 400 V rated valu		integrated
• note for contacts (or auxiliary contacts number of VC contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 0 • at 24 V 3 A • at 120 V 3 A • at 230 V 2 A • at 40 V 1 A opperational current of auxiliary contacts at DC-13 2 A • at 230 V 2 A • at 240 V 0 3 A • at 250 V 0 22 A • at 220 V 0 22 A • at 240 V and monitoring functions B800 / R300 Protective and monitoring functions B800 / R300 VLCSA ratios 12.5 A • at 600 V rated value 12.5 A • at 600 V rated value 12.5 A • at 600 V rated value 12.5 A		
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• note for message "Tripped" operational current of auxiliary contacts at AC-15 0 • at 120 V 3 A • at 230 V 2 A • at 40 V 1 A operational current of auxiliary contacts at DC-13 2 A • at 24 V 0.22 A • at 24 V 0.22 A • at 25 V 0.22 A • at 25 V 0.22 A • at 26 V 0.22 A • at 27 V 0.22 A • at 28 V 0.22 A • at 29 V 0.22 A • at 20 V resolve and monitoring functions CLASS 10 trip class CLASS 10 design of the overload release themal UL/CSA ratings Tube of the summer the auxiliary switch required 1/Lil-load current (FLA) for 3-phase AC motor fise gG: 6. A, quick: 10 A	number of NO contacts for auxiliary contacts	
number of CO contacts for auxiliary contacts at AC-15 0 operational current of auxiliary contacts at AC-15 3 A • at 24 V 3 A • at 120 V 3 A • at 120 V 3 A • at 24 V 3 A • at 24 V 3 A • at 24 V 3 A • at 3400 V 1 A operational current of auxiliary contacts at DC-13 2 A • at 24 V 2 A • at 24 V 2 A • at 24 V 2 A • at 10 V 022 A • at 125 V 0.3 A • at 22 V 0.11 A design of the miniature circuit breaker for short-circuit protection of the auxiliary soluto. 64 (SCC less than equal to 0.5 KA: U less than equal to 260V) protective and monitoring functions 125 A ful-load current (FLA) for 3-phase AC motor 125 A • at 600 V rated value 12.5 A • at 600 V rated value 12.5 A Short-Circuit protection 4regis of the fues link registion any fastening method Contactor mounting <	-	for message "Tripped"
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• et 120 V 3 A • et 128 V 3 A • et 128 V 3 A • et 128 V 2 A • et 240 V 2 A • et 30 V 2 A • et 30 V 2 A • et 320 V 2 A • et 320 V 0 3 A • et 300 V rates value could to 0.5 kA, U less than equal to 260V) Protective and monitoring functions trip class CLASS 10 trip class <th>• at 24 V</th> <th>3 A</th>	• at 24 V	3 A
• et 125 V 3.A • et 230 V 2.A • at 230 V 2.A • at 24 V 2.A • at 80 V 0.3.A • at 10 V 0.3.A • at 25 V 0.22.A • at 200 V inder value bracker for short-circuit protection of the auxiliony switch required B600 / R300 Protective and monitoring functions Ethernal UL/CSA ratings Tid-I-ford value 12.5 A ful-I-foad current (FLA) for 3-phase AC motor - - • at 400 V rated value 12.5 A - • at 400 V rated value 12.5 A - • for short-circuit protection of the auxiliary switch required - - • for short-circuit protection of the auxiliary switch required - - • for short-circuit protection of the auxiliary s	● at 110 V	3 A
• at 230 V 2 A • at 400 V 1A operational current of auxiliary contacts at DC-13 2 • at 24 V 2A • at 24 V 2A • at 24 V 0.3 A • at 10 V 0.22 A • at 125 V 0.22 A • at 220 V 0.11 A design of the ministure circuit breaker for short-circuit protection of the auxiliary sorther required 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) Protective and monitoring functions CLASS 10 the required 12.5 A 1U/CSA ratings CLASS 10 1U/CSA ratings 12.5 A 1U/CSA ratings 12.5 A Short-circuit protection of the auxiliary switch required 12.5 A * at 600 V rated value 12.5 A * at 600 V rated value 12.5 A * for short-circuit protection of the auxiliary switch required 100 required mounting position any fastening method 00 mm befor auxiliary and control circuit screw-type terminals * for auxiliary and control circuit screw-type terminals * for auxiliary and control circuit s	• at 120 V	3 A
• at 400 V 1 A operational current of auxiliary contacts at DC-13 2 A • at 60 V 0.3 A • at 110 V 0.22 A • at 220 V 0.31 A • at 220 V 0.31 A • et 115 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) Protective and monitoring functions 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) Protective and monitoring functions 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) Protective and monitoring functions 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) Protective and monitoring functions 12.5 A UL/CSA ratings CLASS 10 full-lad current (FLA) for 3-phase AC motor 12.5 A • at 600 V rated value 12.5 A Short-circuit protection fuse gG: 6 A, quick: 10 A required 70 (Stata value) • for short-circuit protection of the auxiliary switch required 600 mm • for short-circuit protection of the auxiliary and control circuit 55 mm • for maint contacto 60 mm idapth 90 mm witth 600 mm idapth 90 mm </th <th>• at 125 V</th> <th>3 A</th>	• at 125 V	3 A
operational current of auxiliary contacts at DC-13 2 A • at 24 V 2 A • at 80 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 witch required 6A (SCC less than equal to 0.5 kA; U less than equal to 280V) protection of the auxiliary witch required 6A (SCC less than equal to 0.5 kA; U less than equal to 280V) Protective and monitoring functions 6A (SCC less than equal to 0.5 kA; U less than equal to 280V) Protective and monitoring functions 700 (Protective and monitoring functions trip class CLASS 10 design of the overload release thermal U/CSA ratings 12.5 A full-load current (FLA) for 3-phase AC motor 12.5 A • at 800 V rated value 12.5 A statalation mounting / dimensions fuse g6: 6 A, quick: 10 A mounting position any fastening method 65 mm height 90 mm vidth 65 mm depth 105 mm Connections/ Terminals screw-type terminals for au	• at 230 V	2 A
• at 24 V 2 A • at 160 V 0.3 A • at 110 V 0.22 A • at 125 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 Itemmal trip class CLASS 10 design of the overload release Itemmal UL/CSA ratings Itemmal full-load current (FLA) for 3-phase AC motor • at 400 V rated value • at 400 V rated value 12.5 A • at 400 V rated value 12.5 A • for short-circuit protection of the auxiliary switch required fuse gC: 6 A, quick: 10 A installator/ mounting / dimensions any mounting position any fastoning method Contactor mounting height 90 mm width 55 mm depth 105 mm Connectable conductor cross-sections screw-type terminals • for auxiliary and	• at 400 V	1 A
at 60 V 0.3 A at 110 V 0.22 A 0.02 A 0.22 A 0.72	operational current of auxiliary contacts at DC-13	
• at 110 V 0.22 A • at 125 V 0.22 A • at 125 V 0.22 A • at 220 V 0.11 A design of the miniture 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) Protective and monitoring functions trip class design of the overload release thermal UL/CSA ratings UL/SA ratings UL/CSA ratings UL/SA ratings Intl-load current (FLA) for 3-phase AC motor 12.5 A • at 800 V rated value 12.5 A • at 600 V rated value 12.5 A • at 600 V rated value 12.5 A • for short-circuit protection of the auxiliary switch required fuse gC: 6 A, quick: 10 A required Contactor mounting fastening method Contactor mounting height 90 mm width 55 mm depth 105 mm Connections/ Torminals screw-type terminals product component removable torminal for auxiliary screw-type terminals • for auxiliary and control circuit	• at 24 V	2 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 switch required 6A (SCC less than equal to 0.5 kA; U less than equal to 260V) Protective and monitoring functions EB00 / R300 trip class CLASS 10 design of the overload release thermal U/CSA ratings Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value 12.5 A • at 480 V rated value 12.5 A stallation protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A required fuse gG: 6 A, quick: 10 A required 90 mm mounting position any fastening method Contactor mounting height 90 mm width 55 mm depth 05 mm connections/ Terminals screw-type terminals • for auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-type terminals	• at 60 V	0.3 A
• at 220 V 0.11 A design of the miniature circuit breaker for short-circuit protection of the auxiliary auxiliary contacts according to UL B600 / R300 Protactive and monitoring functions trip class class CLASS 10 design of the overload release thermal UL/CSA tatings Tubleade full-load current (FLA) for 3-phase AC motor 12.5 A • at 480 V rated value 12.5 A • at 600 V rated value 12.5 A • for short-circuit protection of the auxiliary switch required fuse gC: 6 A, quick: 10 A required ontain or moniting Installation/ mounting/ dimensions any fastening method contactor mounting height 90 mm width 55 mm dopin 50 mm Connections/ Terminals screw-type terminals product component removable terminal for auxiliary and control circuit screw-type terminals vipe of electrical connection screw-type terminals • for auxiliary and control circuit screw-type terminals remagement of electrical connectors for main current circuit top auxiliary and control circuit type of connectable conductor	• at 110 V	0.22 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 EMB00 / R300 trip class CLASS 10 design of the overload release thermal UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 400 V rated value 12.5 A Short-circuit protection fuse gG: 6 A, quick: 10 A design of the fuse link e for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions any mounting position any fastening method Contact romounting height 90 mm width 55 mm Gonnection/ Terminals screw-type terminals product component removable terminal for auxiliary and control circuit screw-type terminals arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (135 mm²), 1x (150 mm²) - solid or stranded 2x (0.515 mm²), 2x (0.752.5 mm²)<	• at 125 V	0.22 A
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• for main contacts			M6				
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Safety related data							
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