SIEMENS

Data sheet

3RU2126-4NB1



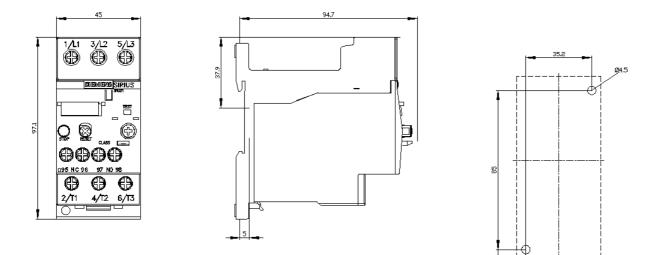
Overload relay 23...28 A Thermal For motor protection Size S0, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS			
product designation	thermal overload relay			
product type designation	3RU2			
General technical data				
size of overload relay	S0			
size of contactor can be combined company-specific	S0			
power loss [W] for rated value of the current at AC in hot operating state	9.6 W			
per pole	3.2 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 	440 V			
 between auxiliary and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 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)	01.10.2009 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	23 28 A			
operating voltage				
rated value	690 V			
 at AC-3 rated value maximum 	690 V			
operating frequency rated value	50 60 Hz			

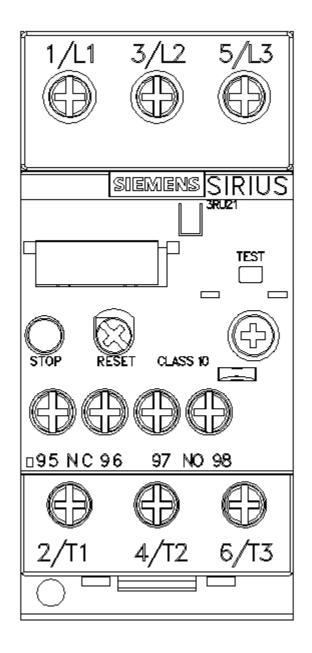
operating power at AC-3 15 kW • at 400 V rated value 22 kW Auxiliary circled 18 kW • at 600 V rated value 22 kW Auxiliary circled 1 • note 0 operational current of auxiliary contacts at AC-15 0 • at 120 V 3A • at 220 V 2A • at 220 V 022A • at 220 V 022A • at 220 V 022A • at 480 V rated value 28 A • at 480 V rat					
 et 400 V rated value 15 kW et 400 V rated value 22 kW Auxiliary context at 900 V rated value 22 kW Auxiliary context integrated number of KC contexts for auxiliary contexts integrated for one of the auxiliary contexts integrated int	operational current rated value	28 A			
• at 600 V rated value 15. KW • at 600 V rated value 22 KV Auxiliary crited: integrated number of KC contacts for auxiliary contacts 1 • note for contactor disconnection number of KC contacts for auxiliary contacts 1 • note for message "Tripped" number of KC contacts for auxiliary contacts at AC-15 3 • at 120 V 3 A • at 230 V 2 A • at 120 V 3 A • at 24 V 3 A • at 25 V 3 A • at 26 V 0 A • at 27 V 0 A • at 28 A 0 A	operating power at AC-3				
• at 800 V rated value 22 kW Auxiliary carboli Integrated number of NC contacts for auxiliary contacts 1 • note for contactor disconnection number of NC contacts for auxiliary contacts 1 • note for message "Tripped" number of CO contacts for auxiliary contacts at AC-15 3 A • at 24 V 3 A • at 120 V 3 A • at 24 V 2 A • at 25 V 0 3 A • at 26 V 0 11 A Decentar tating of auxiliary contacts at DC-13 Image and table auxiliary contacts at according to UL Protective and monitoring functions CLASS 10 totage and table auxiliary contacts according to UL Bool / R300 Protective and monitoring functions 28 A tot 480 V rated value 28 A • at 800 V rated value 28 A • at 800 V rated value 28 A • at 800 V rated value 28 A •	• at 400 V rated value				
Auxiliary circuit integrated design of the auxiliary switch integrated number of K0 contacts for auxiliary contacts 1 • note for contactor disconnection number of K0 contacts for auxiliary contacts 1 • note for message "Tripped" number of CO contacts for auxiliary contacts at AC-15 3 • at 24 W 3 A • at 120 V 3 A • at 120 V 3 A • at 120 V 3 A • at 24 W 2 A • at 120 V 3 A • at 24 W 2 A • at 24 W 2 A • at 24 W 0 operational current of auxiliary contacts at DC-13 2 • at 24 W 0.22 A • at 25 V 0.22 A • at 24 W 0.22 A • at 25 V 0.22 A • at 26 V 0.22 A • at 26 V 0.22 A • at 26 V ration value 28 A • at 460 V ration value 28 A • at 600 V ration value 28 A	● at 500 V rated value	18.5 kW			
design of the auxiliary switch integrated number of NC contacts for auxiliary contacts 1 • note for contactor disconnection number of NC contacts for auxiliary contacts 1 • note for contactor disconnection number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15 3A • at 120 V 3A • at 120 V 3A • at 220 V 2A • at 230 V 2A • at 24 V 0 • at 25 V 3A • at 26 V 0 • at 27 V 2A • at 28 V 0 • at 29 V 0 • at 20 V 0	• at 690 V rated value	22 kW			
number of NC contacts for auxiliary contacts 1 • note for contacts of number of NC contacts for auxiliary contacts • note for message "Tripped" • note number of NC contacts for auxiliary contacts 0 • operational current of auxiliary contacts at AC-15 a a • at 24 v aA aA • at 120 V 3A a • at 24 v aA aA • at 20 V 2A aA • at 20 V 3A a • at 20 V 2A a • at 20 V 000 (TAC) 0.000 (TAC) • at 20 V 0.000 (TAC) 0.000 (TAC) • at 20 V 0.000 (TAC) 0.000 (TAC) • at 20 V 0.010 (TAC) 0.000 (TAC) • at 20 V 0.010 (TAC) 0.000 (TAC) Probactive and monitoring functions 0.010 (TAC) trip class CLASS 10 design of the overload release ULCSA ratings 1000 (Tac) 28 (Tac) • at 480 V rated value 28 (Tac) 28 (Tac)	Auxiliary circuit				
• 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 3.A • at 110 V 3.A • at 120 V 3.A • at 230 V 2.A • at 240 V 3.A • at 240 V 3.A • at 25 V 3.A • at 24 V 2.A • at 25 V 3.A • at 25 V 3.A • at 26 V 0.3 A • at 25 V 0.11 A contact rating of auxiliary contacts at DC-13 at 25 V • at 25 V 0.22 A • at 25 V 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions Thermal Tip class CLASS 10 design of the overload release thermal ULCSA ratings Thermal ULCSA ratings Thermal tat 480 V rated value<	design of the auxiliary switch	integrated			
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• note for message "Tripped" number of CO contacts for auxiliary contacts 0 • at 24 V 3 A • at 10 V 3 A • at 120 V 3 A • at 120 V 3 A • at 230 V 2 A • at 20 V 1 A • operational current of auxiliary contacts at DC-13 - • at 20 V 2 A • at 20 V 2 A • at 20 V 0.3 A • at 20 V 0.22 A • at 20 V 0.21 A • at 20 V 0.22 A • at 20 V 0.21 A • at 20 V 0.22 A • at 20 V 0.21 A • at 20 V 0.22 A • at 20 V 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions Thip class full-load current (FLA) for 3-phase AC motor • • at 80 V rated value 28 A Short-circuit protection of the auxiliary switch regured fuse gG: 6 A, quick: 10 A reguired faste	• note	for contactor disconnection			
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 at 125 V at 200 V cat 200 V cat 200 V cat 200 V cat 24 V cat 24 V cat 24 V cat 25 V cat 25 V cat 220 V rated value cat 28 A cat 220 V rated value cat 20 V rated value <licat 20="" li="" rated="" v="" value<=""> <licat 20="" li="" rated="" v="" value<=""></licat></licat>	• at 110 V	3 A			
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• at 400 V 1 A operational current of auxiliary contacts at DC-13 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 contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions Trip class class CLASS 10 design of the overload release thermal UL/CSA ratings Tull-load current (FLA) for 3-phase AC motor • at 4600 V rated value 28 A • at 600 V rated value 28 A Short-circuit protection fuse gG: 6 A, quick: 10 A required any fastaning method stand-atone installation height 97 mm width 45 mm deptin 95 mm Connectable conductor cross-sections screw-type terminals r for main current of circuit screw-type terminals r for main current oricuit screw-type terminals r for main current oricuit screw-type terminals r for main current oricuit screw-type terminals r for main current	• at 125 V	3 A			
operational current of auxiliary contacts at DC-13 2 A • at 24 V 2 A • at 86 V 0.3 A • at 110 V 0.22 A • at 125 V 0.22 A • at 220 V 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions thirty class design of the overload release CLASS 10 tdesign of the overload release thermal UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 28 A • at 600 V rated value 29 A Short-circuit protection	• at 230 V	2 A			
• at 24 V 2A • at 60 V 0.3 A • at 110 V 0.22 A • at 125 V 0.22 A • at 220 V 0.11A contact rating of auxiliary contacts according to UL Protective and monitoring functions Trip class CLASS 10 design of the overload release UL UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 28 A • at 600 V rated value 28 A • at 600 V rated value 28 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 5 mm depth 95 mm Connectable conductor cross-sections • for availary and control circuit • solid or stranded • at AWG cables for main contacts • product component removable terminal for auxiliary • for auxiliary and control circuit • for auxiliary and control circuit • for main contacts • for auxiliary and control circuit • for main contacts • for auxiliary and control circuit • for main contacts • for auxiliary and control circuit • for auxiliary and control circuit • for main contacts • for main con	• at 400 V	1 A			
• at 24 V 2A • at 60 V 0.3 A • at 110 V 0.22 A • at 125 V 0.22 A • at 220 V 0.11A contact rating of auxiliary contacts according to UL Protective and monitoring functions Trip class CLASS 10 design of the overload release UL UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value 28 A • at 600 V rated value 28 A • at 600 V rated value 28 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 5 mm depth 95 mm Connectable conductor cross-sections • for availary and control circuit • solid or stranded • at AWG cables for main contacts • product component removable terminal for auxiliary • for auxiliary and control circuit • for auxiliary and control circuit • for main contacts • for auxiliary and control circuit • for main contacts • for auxiliary and control circuit • for main contacts • for auxiliary and control circuit • for auxiliary and control circuit • for main contacts • for main con	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 contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions trip class trip class CLASS 10 design of the overload release thermal 1U/CSA ratings thermal full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 28 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 fastening method stand-alone installation height 97 mm width 45 mm depth 95 mm Connections/ Terminals screw-type terminals or main current circuit screw-type terminals of a electrical connectors for main current circuit screw-type terminals of or main current circuit screw-type terminals of or main contacts 1x (1 2.5 mm²), 1x (2.5 10 mm²) ver of connectable conductor cross-sections 2x (1 2.5 mm²), 1x (2.5 10 mm²) ver of connectable conductor cross-sections 2x (1 2.5 mm²), 1x (2.5 10 mm²)	-	2 A			
	● at 60 V	0.3 A			
• at 220 V 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions Itip class trip class CLASS 10 design of the overload release thermal UL/CSA ratings Itle class full-load current (FLA) for 3-phase AC motor • at 640 V rated value • at 640 V rated value 28 A • at 600 V rated value 28 A • at 600 V rated value 28 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A mounting position any fastening method stand-alone installation height 97 mm width 45 mm dopth 95 mm Connections/ Terminals screw-type terminals product component removable terminal for auxiliary and control circuit screw-type terminals • for main current circuit screw-type terminals <th>● at 110 V</th> <th>0.22 A</th>	● at 110 V	0.22 A			
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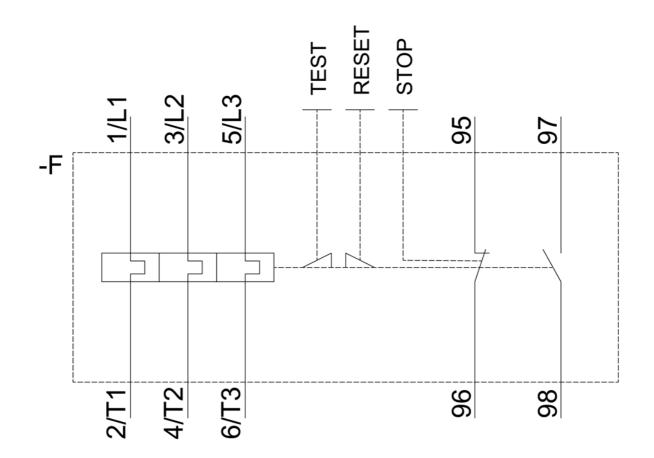
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Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2126-4NB1&objecttype=14&gridview=view1



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