SIEMENS

Data sheet

3RU2116-1KB1



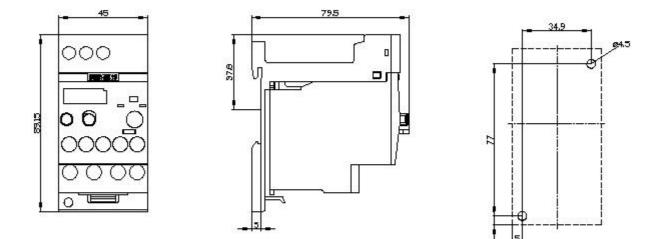
Overload relay 9.0...12.5 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS			
product brand name product designation	thermal overload relay			
product designation	3RU2			
General technical data	51/02			
	000			
size of overload relay	S00			
size of contactor can be combined company-specific	S00			
power loss [W] for rated value of the current at AC in hot operating state	6.6 W			
• per pole	2.2 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	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			

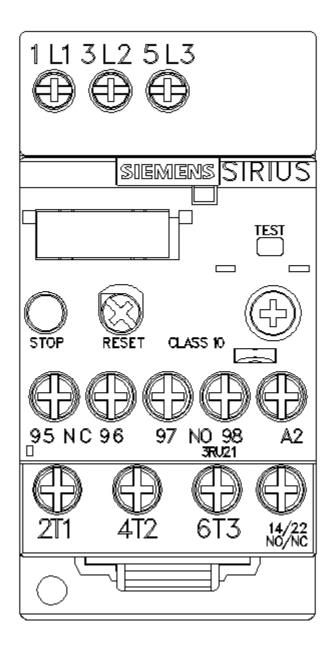
operational current rates value 125 A operational current rates value 125 A operational current rates value 55 WW out dott value 75 WW out dott value 75 WW design of the auxiliary contacts or auxiliary contacts 1 or route 1 operational current of auxiliary contacts 1 operational current of auxiliary contacts at AC-15 0 operational current of auxiliary contacts at DC-13 0 operational current of auxiliary contacts at CD-13				
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• at 800 V rate value7.5 WAuclary circuit7.5 WAuclary circuit1design of the auxillary sorticts1• notefor contactor disconnectionnumber of No Contacts for auxillary contacts1• notefor contactor disconnectionoperational current of auxillary contacts0• at 24 V3.A• at 24 V3.A• at 120 V0.2A• at 220 V0.2A• at 220 V0.2A• at 220 V0.2A• at 220 V0.2A• at 480 V rated valu	operating power at AC-3			
• 1690 V rated value 7.5 kW Auxiliary circuit infograted number of NC contacts for auxiliary contacts 1 • note for contactor disconnection number of NO contacts for auxiliary contacts 1 • note for message "Tripped" operational current of auxiliary contacts at AC-15 3 A • if 120 V 0 A • if 24 W 0 A • if 25 V 0 A • if 120 V 0 A • if 120 V 0 A • if 24 W 0 A • if 25 V 0 A • if 26 V 0 A • if 27 V 0 A • if 28 V 0 A • if 28 V 0 A • if 20 V 0 A <th>• at 400 V rated value</th> <th>5.5 kW</th>	• at 400 V rated value	5.5 kW		
Austingry circuit integrated design of the auxiliary contacts 1 • note for contacts for auxiliary contacts 1 • note • note for contactor disconnection • note note	 at 500 V rated value 	7.5 kW		
design of the auxiliary switch Inlegraded number of NC contacts for auxiliary contacts 1 • rote for contactor disconnection • number of NC contacts for auxiliary contacts 0 • rote for contactor disconnection • number of NC contacts for auxiliary contacts 0 • orde for contactor disconnection • number of CO contacts for auxiliary contacts at AC-15 3 • at 120 V 3A • at 24 V 3A • at 25 V 3A • at 26 V 0 • at 27 V 0.22 A • at 120 V 0.11 A cortact rating of auxiliary contacts at DC-13 • • at 20 V 0.22 A • at 25 V 0.21 A Contact rating of auxiliary contacts according to UL Defocition ant for outling / dimensions <th>• at 690 V rated value</th> <th>7.5 kW</th>	• at 690 V rated value	7.5 kW		
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number of NC contacts for auxiliary contacts 1 • note for contactor disconnection • note for message "Tripped" • number of CO contacts for auxiliary contacts 0 • of 24 V 3A • at 24 V 3A • at 250 V 3A • at 240 V 3A • at 200 V 2A • at 200 V 0.3A • at 200 V 0.3A • at 220 V 0.32A • at 220 V 0.22A • at 220 V 0.22A • at 220 V 0.22A • at 20 V rated value 0.11A Protective and monitoring functions Impersormal UUCSA rating of auxiliary contacts according to UL B000 / R300 Protectore andelesese thermal	design of the auxiliary switch	integrated		
• note for contacts for auxiliary contacts • note for message "Tripped" • note 0 number of No contacts for auxiliary contacts 0 0 operational corrent of auxiliary contacts at AC-15 3.4 • at 120 V 3.A • at 24 V 3.A • at 230 V 2.A • at 240 V 0.3 A • at 120 V 0.22 A • at 240 V 0.22 A • at 250 V 0.22 A • at 220 V 0.22 A • at 60 V rated value <t< th=""><th></th><th></th></t<>				
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operational current of auxiliary contacts at AC-15 3 A • at 24 V 3 A • at 110 V 3 A • at 120 V 3 A • at 230 V 2 A • at 240 V 2 A • at 250 V 0.3 A • at 220 V 0.22 A • at 220 V 0.22 A • at 220 V 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protectiva and monitoring functions The protection full-dad current (FLA) for 3-phase AC motor 12.5 A • at 800 V rated value 12.5 A • bar 800 registrian	number of CO contacts for auxiliary contacts			
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• at 120 V 3 A • at 125 V 3 A • at 230 V 2 A • at 400 V 1 A operational current of auxiliary contacts at DC-13 2 A • at 24 V 2 A • at 60 V 0.3 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 UL/CSA ratings UL/CSA ratings CLASS 10 design of the overload release thermal UL/CSA ratings Tot short-circuit protection of the auxiliary switch required • 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 fastendame installation Installation/ mounting/ dimensions fuse gG: 6 A, quick: 10 A required 28 mm width 45 mm depth 80 mm ord ord circuit screw-type terminals rof auxiliary and control circuit screw-type terminals • of auxiliary and control circuit screw-type terminals		3 A		
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• at 230 ∨ 2 A • at 400 ∨ 1 A operational current of auxiliary contacts at DC-13 2 • at 24 ∨ 0.3 A • at 60 ∨ 0.3 A • at 10 ∨ 0.22 A • at 125 ∨ 0.22 A • at 220 ∨ 0.11 A contact rating of auxiliary contacts according to UL B600 / R300 Protective and monitoring functions The class design of the overload release thermal UL/CSA ratings CLASS 10 design of the overload release thermal UL/CSA ratings 12.5 A out 400 V rated value 12.5 A • at 400 V rated value 12.5 A • at 400 V rated value 12.5 A • for short-circuit protection fuse gG: 6 A, quick: 10 A • for short-circuit protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A • for short-circuit protection stand-alone installation • for short-circuit protection of the auxiliary and control circuit stand-alone installation • for auxiliary and control circuit strem • for auxiliary and control	• at 120 V	3 A		
• at 400 V 1A operational current of auxiliary contacts at DC-13 2 A • at 80 V 0.3 A • at 100 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 Emmail trip class CLASS 10 design of the overload release thermail UL/CSA ratings 12.5 A full-load 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 required Installation/mounting/ dimensions any mounting position any fastening method stand-alone installation height 48 mm despth 80 mm Connections/femal for auxiliary screw-type terminals of or auxiliary and control circuit screw-type terminals • for auxiliary and control circuit screw-ty	• at 125 V	3 A		
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• 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 themal U/CSA ratings Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value 12.5 A • at 600 V rated value 12.5 A Short-circuit protection fuse gG: 6 A, quick: 10 A design of the fuse link fuse gG: 6 A, quick: 10 A required any fastening method stand-alone installation height 80 mm width 45 mm depth 80 mm Connections/ Terminals screw-type terminals product component removable terminal for auxiliary and control circuit screw-type terminals * for auxilary and control circuit screw-type terminals	• at 60 V	0.3 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 themal U/CSA ratings Tull-load current (FLA) for 3-phase AC motor • at 480 V rated value 12.5 A • at 600 V rated value 12.5 A Short-circuit protection fuse gG: 6 A, quick: 10 A design of the fuse link fuse gG: 6 A, quick: 10 A required any fastening method stand-alone installation height 80 mm width 45 mm depth 80 mm Connections/ Terminals screw-type terminals product component removable terminal for auxiliary and control circuit screw-type terminals * for auxilary and control circuit screw-type terminals				
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solid or stranded 2x (0,5 1,5 mm ²), 2x (0,75 2,5 mm ²)				
- intervision stranded with core end processing $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$				
	— intery stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		

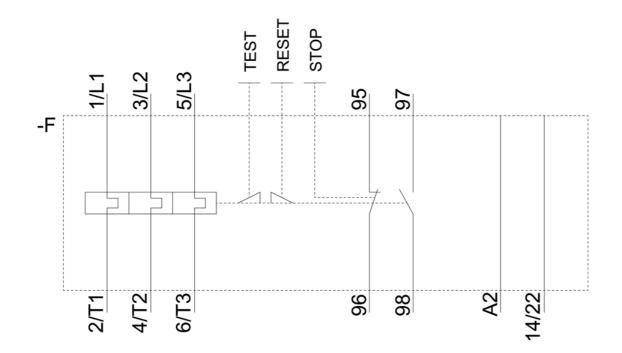
 at AWG cables 	s for auxiliary contacts		2x (20	0 16), 2x (18 14)		
tightening torque						
 for main contacts with screw-type terminals 				1.2 N·m		
 for auxiliary contacts with screw-type terminals 			0.8	1.2 N·m		
design of screwdriv			Diame	eter 5 6 mm		
size of the screwdr	•		Pozid	riv PZ 2		
-	d of the connection scr	rew				
 for main contacts 			M3			
 of the auxiliary 	and control contacts		M3			
Safety related data						
failure rate [FIT] with low demand rate acc. to SN 31920			50 FIT			
MTTF with high demand rate		2 280 у				
T1 value for proof test interval or service life acc. to IEC 61508			20 y			
protection class IP	on the front acc. to IEC	C 60529	IP20			
touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front			
Display						
display version for s	witching status		Slide	switch		
Certificates/ approva	ls					
General Product A					For use in hazardo	us locations
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PRS	RINA	RMRS RMRS		DNV-GL	<u>Confirmation</u>	Vibration and Shock
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