SIEMENS

Data sheet

3RU2116-1DJ0



Overload relay 2.2...3.2 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Ring cable lug Auxiliary circuit: ring cable lug Manual-Automatic-Reset

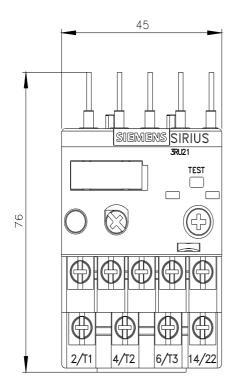
product brand name SIRIUS product designation Baruz product type designation SRU2 canard technical data Solo size of overload relay Solo power loss [M] for rated value of the current at AC in hot operating state 57 W opper loss [M] for rated value of the current at AC in hot operating state 57 W oper loss [M] for rated value of pollution 3 at AC rated value 68 V urge voltage resistance rated value 64 V maximum permissible voltage for protective separation in networks with grounded star point 440 V • between main and auxiliary circuit 440 V • between according to IEC 60068-2-27 8g /11 ms Type of protection according to ATEX directive 2014/34/EU DMT 93 ATEX G 001 reference code according to IEC 81346-2 F		
product type designation 3RU2 General technical data	product brand name	SIRIUS
General to-chnical data Solo size of overticad relay Solo size of contactor can be combined company-specific Solo opper loss [W] for rated value of the current at AC in hot operating state 5.7 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 64V maximum permissible voltage for protoctive separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary and curving to ATEX directive 2014/34/EU Ex II (2) GD Certificate of suitability according to ATEX directive 2014/34/EU Ex II (2) GD Certificate of suitability according to ATEX directive 2014/34/EU F Substance Prohibitance (Date) 100/1/2009 Ambient conditions -55 +80 °C • during peration -65 +80 °C • during storage -55 +80 °C • during storage -55 +80 °C • during transport -55 +80 °C • during transport -55 +80 °C • during transport -55 +8	product designation	thermal overload relay
size of overload relay S00 size of contactor can be combined company-specific S00 power loss [M] for rated value of the current at AC in hot operating state 5.7 W • per pole 1.9 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 680 V maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 40 V • between main and auxiliary circuit 50.1001200E <t< th=""><th>product type designation</th><th>3RU2</th></t<>	product type designation	3RU2
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operating state 1.9 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 680 V maximum permissible voltage for protective separation in networks with grounded star point 6 kV • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between main and auxiliary circuit 440 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 F Substance Prohibitance (Date) 10/01/2009 Ambient conditions 2000 m ambient temperature 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 3 adjustable current response value	size of contactor can be combined company-specific	S00
Insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage resistance rated value 6 kV maximum permissible voltage for protective separation in networks with grounded star point 440 V • between auxiliary and auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary circuit 440 V • between main and auxiliary circuit 440 V • between auxiliary circuit 58 / 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 Ex II (2) GD Ambient conditione 1001/2009 Ambient conditione 1001/2009 Ambient conditione 1001/2009 Ambient conditione		5.7 W
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maximum permissible voltage for protective separation in networks with grounded star point between auxiliary and auxiliary circuit between main and auxiliary circuit buty of potection according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 crificate of suitability according to ATEX directive 2014/34/EU DMT 98 ATEX G 001 anbient conditions anbient conditions anbient conditions	insulation voltage with degree of pollution 3 at AC rated value	690 V
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temperature compensation -40 +60 °C relative humidity during operation 10 95 % Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 2.2 3.2 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 3.2 A operational current at AC-3e at 400 V rated value 3.2 A	during storage	-55 +80 °C
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number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 2.2 3.2 A 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 3.2 A operational current at AC-3e at 400 V rated value 3.2 A operational current at AC-3e at 400 V rated value 3.2 A operational current at AC-3e at 400 V rated value 3.2 A	relative humidity during operation	10 95 %
adjustable current response value current of the current- 2.2 3.2 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value 3.2 A operational current at AC-3e at 400 V rated value 3.2 A	Main circuit	
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operational current rated value 3.2 A operational current at AC-3e at 400 V rated value 3.2 A	 at AC-3e rated value maximum 	690 V
operational current at AC-3e at 400 V rated value 3.2 A	operating frequency rated value	50 60 Hz
·	operational current rated value	3.2 A
operating power	operational current at AC-3e at 400 V rated value	3.2 A
	operating power	

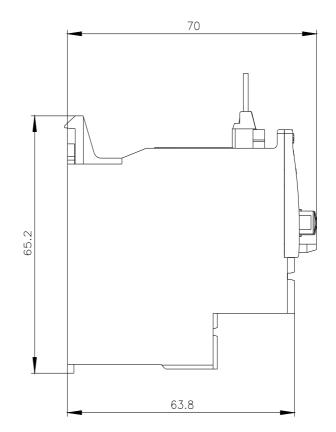
• at AC-3	4.4.134
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
• at AC-3e	
— at 400 V rated value	1.1 kW
— at 500 V rated value	1.5 kW
— at 690 V rated value	2.2 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary 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
contact rating of auxiliary contacts according to UL	B600 / R300
Protective and monitoring functions	
trip class	CLASS 10
design of the overload release	thermal
UL/CSA ratings	thermal
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	3.2 A
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	
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	3.2 A
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	3.2 A 3.2 A
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	3.2 A
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	3.2 A 3.2 A
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 	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting
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 	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No
UL/CSA ratings • 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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No No
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No Ring cable lug connection ring terminal lug connection
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	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No Ring cable lug connection ring terminal lug connection
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 tightening torque	3.2 A 3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No Ring cable lug connection ring terminal lug connection Top and bottom
UL/CSA ratings • 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 tightening torque • for main contacts for ring cable lug • for auxiliary contacts for ring cable lug	3.2 A 3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No No Ring cable lug connection ring terminal lug connection Top and bottom 1.2 0.8 N·m
UL/CSA ratings • 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 tightening torque • for main contacts for ring cable lug	3.2 A 3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No No Ring cable lug connection ring terminal lug connection Top and bottom 1.2 0.8 N·m 0.8 1.2 N·m
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 tightening torque • for main contacts for ring cable lug • for auxiliary contacts for ring cable lug • for auxiliary contacts for ring cable lug	3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No No Ring cable lug connection ring terminal lug connection Top and bottom 1.2 0.8 N·m 0.8 1.2 N·m 7.5 mm
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 tightening torque • for main contacts for ring cable lug • for auxiliary contacts for ring cable lug • for auxiliary contacts for ring cable lug • for auxiliary contacts for ring cable lug	3.2 A 3.2 A 3.2 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No Ring cable lug connection ring terminal lug connection Top and bottom 1.2 0.8 N·m 0.8 1.2 N·m 7.5 mm Diameter 5 6 mm

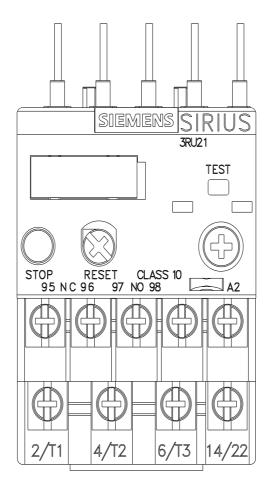
 for main contacts 		M3		
 of the auxiliary and control contacts 		M3		
Safety related data				
failure rate [FIT] with low demand rate according to SN 31920		50 FIT		
MTTF with high demand rate		2 280 a		
T1 value for proof test interval or service life a 61508	ccording to IEC	20 a		
protection class IP on the front according t	o IEC 60529	IP00		
Display				
display version for switching status		Slide switch		
Certificates/ approvals				
General Product Approval			For use in hazardous	locations
Confirmation ccc	(U) u	EHC	KEX ATEX	IECEx
Declaration of Conformity	Test Certificate	95	Marine / Shipping	
	<u>Special Test Ce</u> <u>ate</u>	ertific- <u>Type Test Certific-</u> ates/Test Report	ABS	BUREAU VERITAS
Marine / Shipping				other
DNV LRS	PRS	RINA	RMRS	<u>Confirmation</u>
Railway				

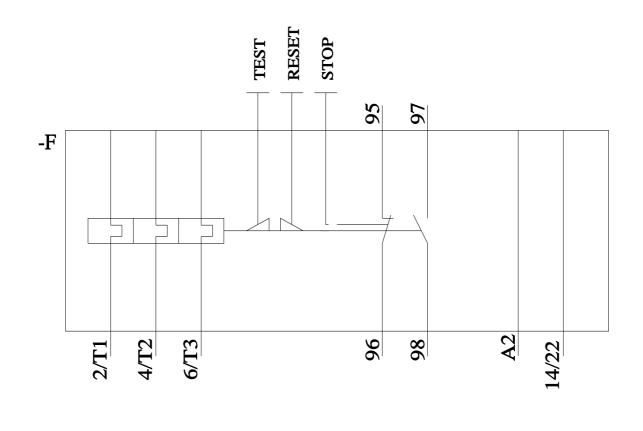
Vibration and Shock

	decided to exit the Russian market (see here). emens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is w Please contac	orking on the renewal of the current EAC certificates. I 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 market (other than the sanctioned EAEU member states Russia or Belarus).
	n the packaging .industry.siemens.com/cs/ww/en/view/109813875
	and Downloadcenter (Catalogs, Brochures,) emens.com/ic10
	(Online ordering system) ustry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-1DJ0
Cax online ge	nerator automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1DJ0
	port (Manuals, Certificates, Characteristics, FAQs,) industry.siemens.com/cs/ww/en/ps/3RU2116-1DJ0
	se (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) omation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1DJ0⟨=en
	:: Tripping characteristics, I ² t, Let-through current industry.siemens.com/cs/ww/en/ps/3RU2116-1DJ0/char
Further chara	cteristics (e.g. electrical endurance, switching frequency) omation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1DJ0&obiecttype=14&gridview=view1









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