SIEMENS

Data sheet

3RU2116-0JC0



Overload relay 0.70...1.0 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

product designation thermal overload relay product type designation 3RU2 size of contractor can be combined company-specific 500 size of contactor can be combined company-specific 500 operating technical data 4.8 W • per pole 1.6 W insulation voltage with degree of pollution 3 at AC rated value 680 V surge voltage resistance rated value 68V maximum permissible voltage for protective separation 64V • in networks with ungrounded star point between auxiliary 440 V and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • in networks with grounded star point between main and auxiliary circuit 440 V • duilary dircuit 0.17 kg Bubstance according to IEC 60068-2-27 8g / 11 ms reference code according to IEC 60068-2-27 8g / 11 ms	product brand name	SIRIUS
product type designation 3RU2 General technical data 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 4.8 W • per pole 1.6 W insulation voltage with degree of pollution 3 at AC rated value 690 V surge voltage rosistance rated value 68 V maximum permissible voltage for protective separation 6 kV • in networks with ungrounded star point between auxiliary and auxiliary circuit 440 V • in networks with ungrounded star point between main and auxiliary circuit 440 V • in networks with ungrounded star point between main and auxiliary circuit 440 V • in networks with ungrounded star point between main and auxiliary circuit 440 V • in networks with ungrounded star point between main and auxiliary circuit 440 V • in networks with ungrounded star point between main and auxiliary circuit 440 V • shock resistance according to IEC 60068-2:7 8g / 11 ms • for the operation of the operation 440 V • during operation 400 V • during operation 400 V • during operation 400 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 0.7 1 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	during storage	-55 +80 °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 0.7 1 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	during transport	-55 +80 °C
Main circuit 3 number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.7 1 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	temperature compensation	-40 +60 °C
number of poles for main current circuit 3 adjustable current response value current of the current- dependent overload release 0.7 1 A operating voltage rated value 690 V at AC-3e rated value maximum 690 V operating frequency rated value 	relative humidity during operation	10 95 %
adjustable current response value current of the current- 0.7 1 A operating voltage 690 V • rated value 690 V • at AC-3e rated value maximum 690 V operating frequency rated value 50 60 Hz	Main circuit	
dependent overload release operating voltage • rated value • at AC-3e rated value maximum operating frequency rated value 50 60 Hz	number of poles for main current circuit	3
rated value at AC-3e rated value maximum 690 V 690 V 690 V 690 V 50 60 Hz		0.7 1 A
at AC-3e rated value maximum 690 V 50 60 Hz	operating voltage	
operating frequency rated value 50 60 Hz	rated value	690 V
	 at AC-3e rated value maximum 	690 V
	operating frequency rated value	50 60 Hz
	operational current rated value	1 A

operational current at AC-3e at 400 V rated value	1A
operational current at AC-Se at 400 Vilated value	
• at AC-3	
- at 400 V rated value	0.25 kW
— at 500 V rated value	0.37 kW
— at 690 V rated value	0.55 kW
	0.55 KW
• at AC-3e	
— at 400 V rated value	0.25 kW
— at 500 V rated value	0.37 kW
— at 690 V rated value	0.55 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	
• 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 125 V • at 220 V	0.22 A 0.11 A
• at 220 V	0.11 A
• at 220 V contact rating of auxiliary contacts according to UL	0.11 A
• at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions	0.11 A B600 / R300
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class	0.11 A B600 / R300 CLASS 10
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release	0.11 A B600 / R300 CLASS 10
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings	0.11 A B600 / R300 CLASS 10
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	0.11 A B600 / R300 CLASS 10 thermal
• at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	0.11 A B600 / R300 CLASS 10 thermal
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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	0.11 A B600 / R300 CLASS 10 thermal
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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	0.11 A B600 / R300 CLASS 10 thermal
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor e at 480 V rated value e at 600 V rated value Short-circuit protection design of the fuse link e for short-circuit protection of the auxiliary switch required	0.11 A B600 / R300 CLASS 10 thermal
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 at 600 V rated value Short-circuit protection design of the fuse link o for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 at 600 V rated value Short-circuit protection design of the fuse link of r short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm 45 mm
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 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	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm
	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm 45 mm
tat 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 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	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm 45 mm 70 mm
• at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm 45 mm 70 mm
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 bat of 00 V rated value Short-circuit protection design of the fuse link ofor 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 of remain current circuit	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm 45 mm 70 mm No
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 at 600 V rated value Short-circuit protection design of the fuse link of or 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 of ro main current circuit of ro auxiliary and control circuit	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A 1 A 4 S mm 70 mm No Spring-loaded terminals spring-loaded terminals
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 at 600 V rated value Short-circuit protection design of the fuse link of or 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 of rauxiliary and control circuit arrangement of electrical connectors for main current circuit	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm 45 mm 70 mm No
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 at 600 V rated value Short-circuit protection design of the fuse link ofor 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 connectors for main current circuit type of connectable conductor cross-sections	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A 1 A 4 S mm 70 mm No Spring-loaded terminals spring-loaded terminals
at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A
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at 220 V contact rating of auxiliary contacts according to UL Protective and monitoring functions trip class 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 	0.11 A B600 / R300 CLASS 10 thermal 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A

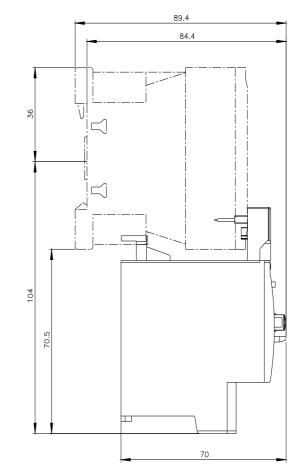
type of connectable co • for auxiliary conta			1x (20 12)		
-	onductor cross-sections	6			
	acts				
 — solid or stra 			2x (0.5 2.5 mm²)		
- finely strand	led with core end process	sing	2x (0.5 1.5 mm²), 2	x (0.75 2.5 mm²)	
•	led without core end proc	•	2x (0.5 1.5 mm²)	· · · ·	
	or auxiliary contacts	5	2x (20 14)		
design of screwdriver			Diameter 3 mm		
size of the screwdrive			3,0 x 0,5 mm		
Safety related data	- 		-,,-		
	ow demand rate accord	ing to SN	50 FIT		
31920					
MTTF with high demai	nd rate		2 280 a		
IEC 61508					
T1 value					
	rval or service life accordi	ing to IEC	20 a		
61508					
Electrical Safety					
-	the front according to I		IP20		
	e front according to IEC	60529	finger-safe, for vertica	al contact from the front	
Display					
display version for swite	ching status		Slide switch		
Approvals Certificates					
General Product App	oval				For use in hazard-
					ous locations
CE EG-Konf.	UK CA	<u>Confirmatio</u>) EHC	IECEx
For use in hazard- ous locations	Test Certificates		Marine / Ship	pping	
Æx>	<u>Type Test Certific-</u> ates/Test Report	<u>Special Test Ce</u> <u>ate</u>	ertific-		<u>ĴÅ</u>
ATEX			ABS	BUREAU VERITAS	DNV
ATEX Marine / Shipping			ABS	BUREAU VERITAS	DNV
ATEX Marine / Shipping			ABS	other	DNV
ATEX Marine / Shipping			ABS		S <u>Confirmation</u>
ATEX Marine / Shipping			ABS	other	s <u>Confirmation</u>
ATEX Marine / Shipping	PRS	RINA	ABS	other	S <u>Confirmation</u>
Lloyds Kegister	PRS	() RINA	ABS	other	s <u>Confirmation</u>
Lloyds Kegister	PRS	() RINA	ABS	other	<u>s Confirmation</u>
Lloyds Kegister	PRS Environment	RINA	ABS	other	s <u>Confirmation</u>
Lloyds Register urs	PRS Environment	Environmental firmations		other	s <u>Confirmation</u>
Railway Special Test Certific- ate	EPD			other	s Confirmation
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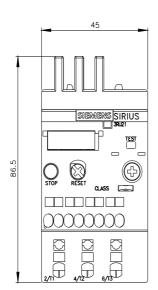
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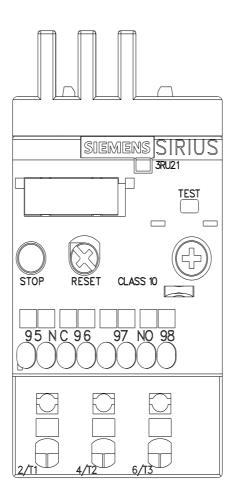
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0JC0&lang=en

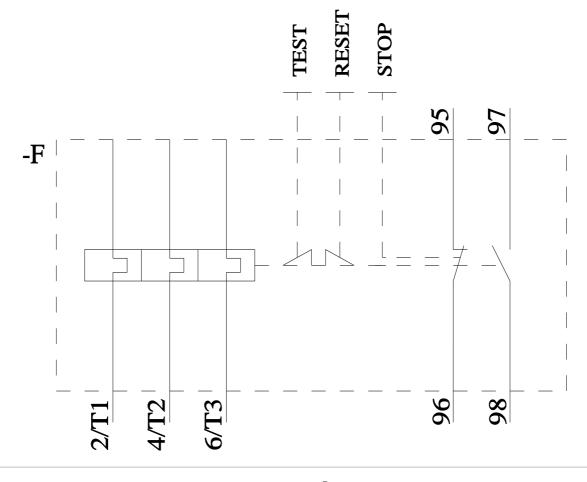
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0JC0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0JC0&objecttype=14&gridview=view1









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