## SIEMENS

## Data sheet

## 3RU2116-1GJ0



Overload relay 4.5...6.3 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	thermal overload relay
product type designation	3RU2
General technical data	
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	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	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
<ul> <li>ambient temperature during operation</li> </ul>	-40 +70 °C
<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C
<ul> <li>ambient temperature during transport</li> </ul>	-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	4.5 6.3 A
current-dependent overload release	
	690 V

	50 0011		
operating frequency rated value	50 60 Hz		
operational current rated value	6.3 A		
operating power at AC-3			
at 400 V rated value	2.2 kW		
at 500 V rated value	3 kW		
at 690 V rated value	4 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		
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		
	thermal		
UL/CSA ratings	thermal 6.3 A		
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	6.3 A		
UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	6.3 A		
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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 function 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	6.3 A 6.3 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm 70 mm No No Ring cable lug connection ring cable connection Top and bottom 1.2 0.8 N·m 0.8 1.2 N·m		

design of the thread	of the connection sc	rew			
<ul> <li>for main contact</li> </ul>			M3		
<ul> <li>of the auxiliary a</li> </ul>	and control contacts		M3		
Safety related data					
failure rate [FIT] with I	ow demand rate acc. to	o SN 31920	50 FIT		
MTTF with high demand rate 2 280 y		2 280 y			
T1 value for proof test interval or service life acc. to IEC 61508		20 y			
protection class IP on the front acc. to IEC 60529		IP00			
Display					
display version for sw	itching status		Slide switch		
Certificates/ approval	s				
General Product Ap	proval			For use in haza	rdous locations
S.	(CCC)		EAC	KEx ATEX	IECEx
Declaration of Confe	ormity	Test Certifica	tes	Marine / Shippin	ng
C C EG-Konf.	<u>Miscellaneous</u>	<u>Special Te:</u> <u>Certificate</u>	st <u>Type Test</u> <u>Certificates/Te</u> <u>Report</u>	at ABS	BUREAU VERITAS
Marine / Shipping					other
Lloyds Register us	PRS	RINA	RMRS	DNV-GL CHASL CORES	<u>Confirmation</u>
Railway					
Vibration and Shock					
urther information					
https://www.siemens.o Industry Mall (Online	e ordering system) emens.com/mall/en/en	_			

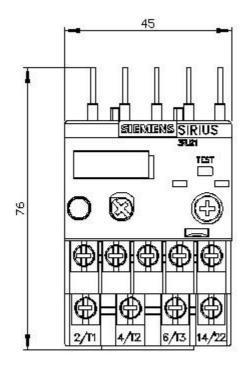
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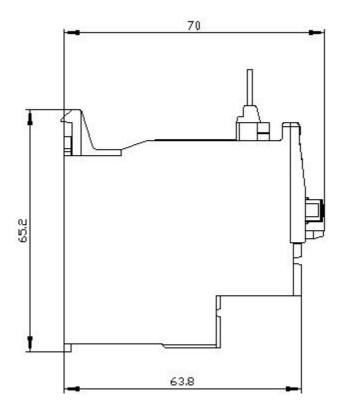
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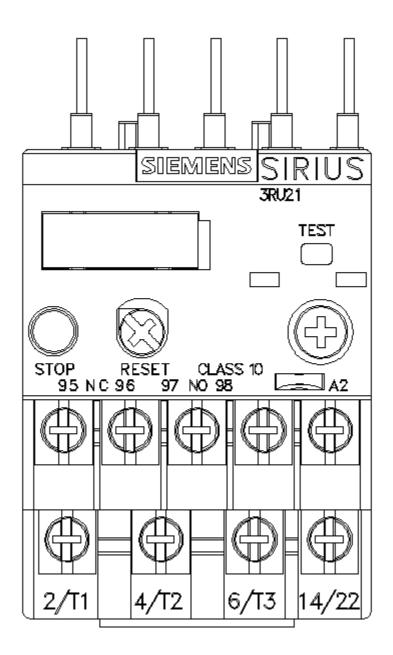
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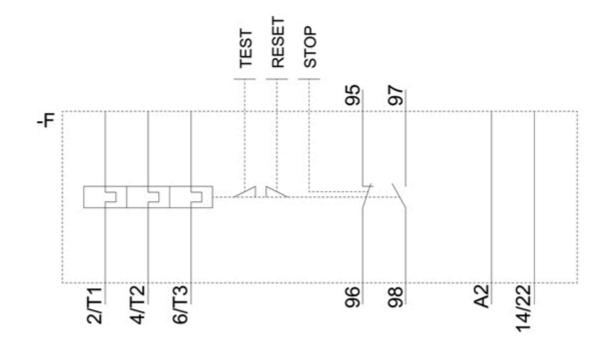
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2116-1GJ0&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1GJ0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1GJ0&objecttype=14&gridview=view1









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