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	
 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
 ambient temperature during storage 	-55 +80 °C
 ambient temperature 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	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			
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design of the thread	of the connection sc	rew			
 for main contact 			M3		
 of the auxiliary a 	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	_			

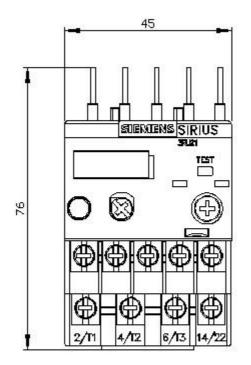
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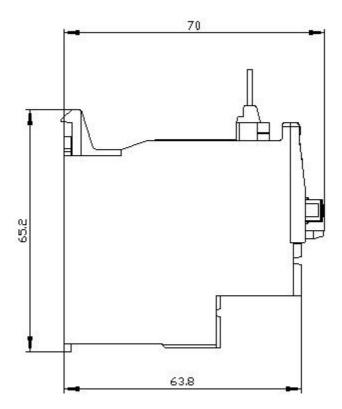
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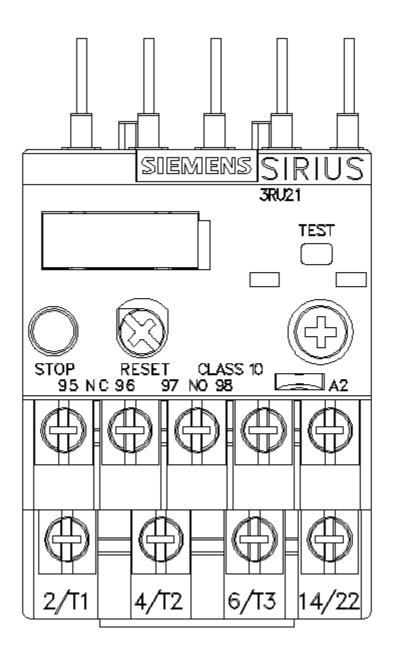
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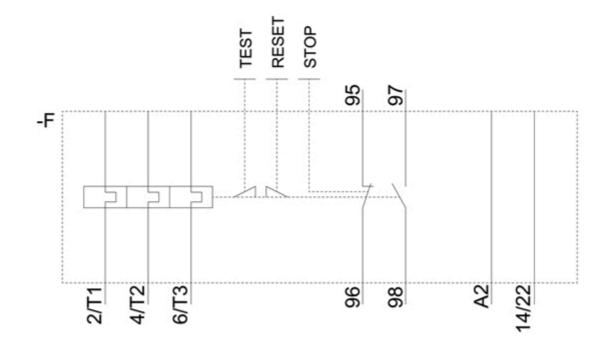
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