SIEMENS

Data sheet

3RU2116-0GC0



Overload relay 0.45...0.63 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 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	4.8 W			
per pole	1.6 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 current-dependent overload release	0.45 0.63 A			
 operating voltage rated value 	690 V			
• operating voltage at AC-3 rated value maximum	690 V			

operating frequency rated value	50 60 Hz			
operational current rated value	0.63 A			
operating power at AC-3	0.00 A			
at 400 V rated value	0.18 kW			
at 500 V rated value	0.25 kW			
at 690 V rated value	0.25 kW			
Auxiliary circuit	0.20 KW			
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				
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 second sed we have a				
design of the overload release	thermal			
	thermal			
UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal			
UL/CSA ratings	0.63 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 • at 600 V rated value	0.63 A			
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type of connectable cond	uctor cross-se	ctions					
 for auxiliary contacts 							
— solid or stranded				2.5 mm²)			
 finely stranded with core end processing 				1.5 mm²), 2x (0.	75 2.5 mm²)		
 finely stranded without core end processing 			1.5 mm²)				
at AWG cables for auxiliary contacts		2x (20 .	2x (20 14)				
design of screwdriver shaft			Diamete	er 3 mm			
size of the screwdriver tip			3,0 x 0,	3,0 x 0,5 mm			
Safety related data							
failure rate [FIT] with low demand rate acc. to 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 I	EC 60529	IP20				
touch protection on the fr	touch protection on the front acc. to IEC 60529			finger-safe, for vertical contact from the front			
Display							
display version for switching	g status		Slide sv	vitch			
Certificates/ approvals							
General Product Approva	al				For use in hazardou	us locations	
General Froduct Approva	ai						
				EHC	IECE×	K ATEX	
Declaration of Conformit	У	Test Certifica	ates		Marine / Shipping		
<u>Miscellaneous</u>	CE EG-Konf.	<u>Type Tes</u> <u>Certificates/T</u> <u>Report</u>		<u>Special Test</u> <u>Certificate</u>	ABS	BUREAU VERITAS	
Marine / Shipping						other	
Llovd's Register uis	PRS	RINA		RMRS R	DNV-GL DNV-GL	<u>Confirmation</u>	
Railway							
Vibration and Shock							
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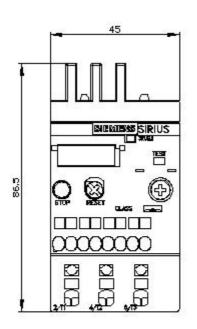
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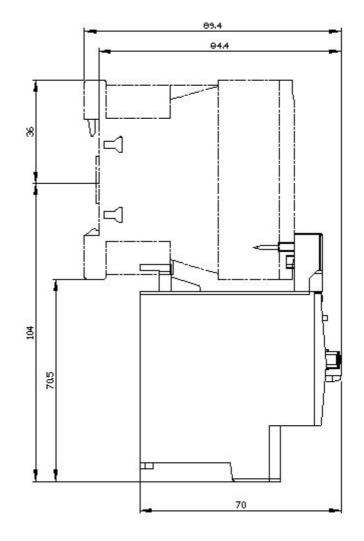
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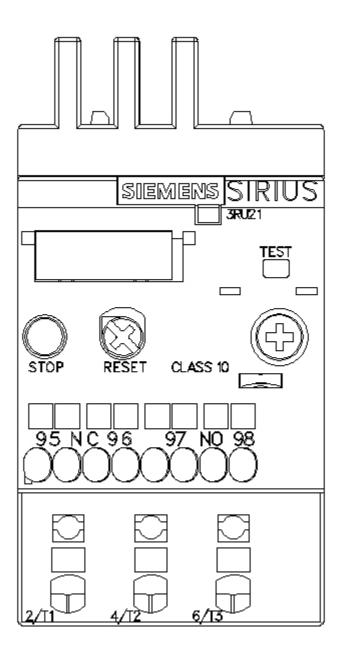
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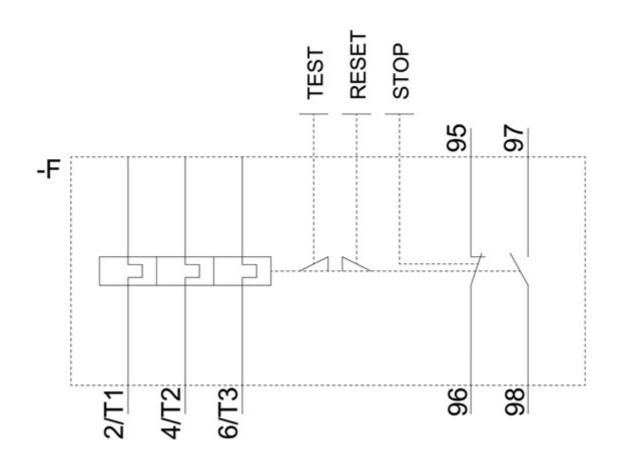
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