SIEMENS

Data sheet 3RU2116-1GB0



Overload relay 4.5...6.3 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw 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	
during storage	-55 +80 °C	
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	4.5 6.3 A	
operating voltage • rated value	690 V	

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at AC-3 rated value maximum	690 V		
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		
trip class design of the overload release	CLASS 10 thermal		
design of the overload release			
design of the overload release UL/CSA ratings			
design of the overload release			
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	thermal		
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	thermal 6.3 A		
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type of connectable conductor cross-sections				
 for auxiliary contacts 				
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)			
 finely stranded with core end processing 	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)			
 at AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14)			
tightening torque				
 for main contacts with screw-type terminals 	0.8 1.2 N·m			
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m			
design of screwdriver shaft	Diameter 5 6 mm			
size of the screwdriver tip	Pozidriv PZ 2			
design of the thread of the connection screw				
 for main contacts 	M3			
 of the auxiliary and control contacts 	M3			
Safety related data				
failure rate [FIT] with low demand rate acc. to SN 31920	50 FIT	50 FIT		
MTTF with high demand rate	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	IP20			
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front			
Display				
display version for switching status	Slide switch			
Certificates/ approvals				
General Product Approval		For use in hazardous locations		













Declaration of Conformity

Test Certificates

Marine / Shipping



Miscellaneous

Special Test Certific-ate Type Test Certific-ates/Test Report





Marine / Shipping

other









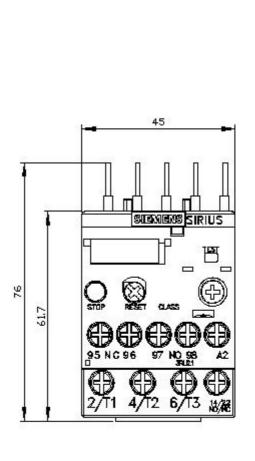


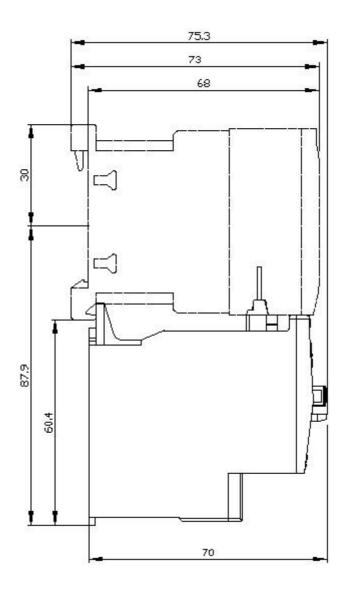
Confirmation

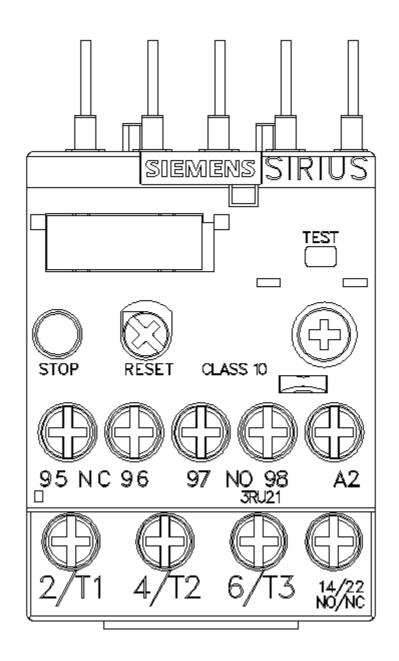
Railway

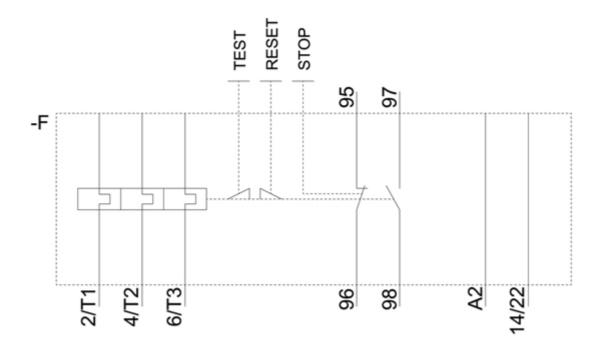
Vibration and Shock

Further information









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