SIEMENS

Data sheet

3RU2116-1EB0



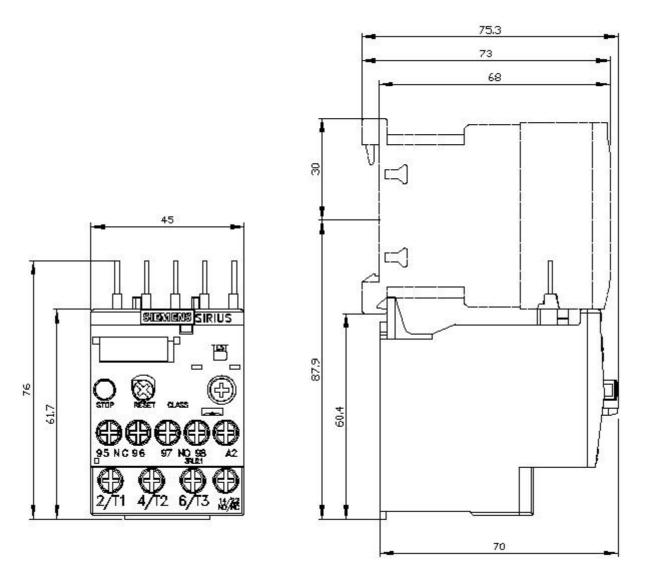
Overload relay 2.8...4.0 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

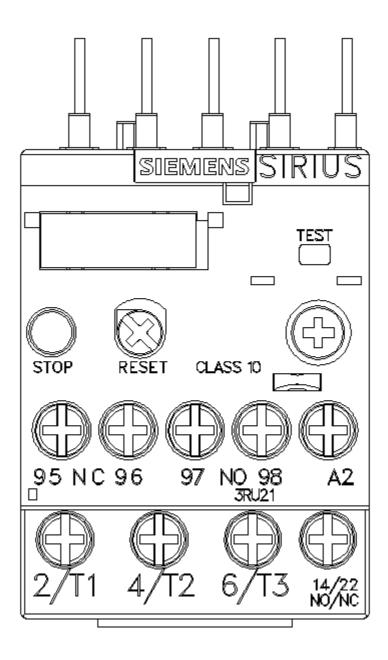
product brand name	SIRIUS			
product designation	thermal overload relay			
product type designation	3RU2			
General technical data				
size of overload relay	S00			
size of contactor can be combined company-specific	S00			
power loss [W] for rated value of the current at AC in hot operating state	5.7 W			
per pole	1.9 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	2.8 4 A			
operating voltage rated value 	690 V			

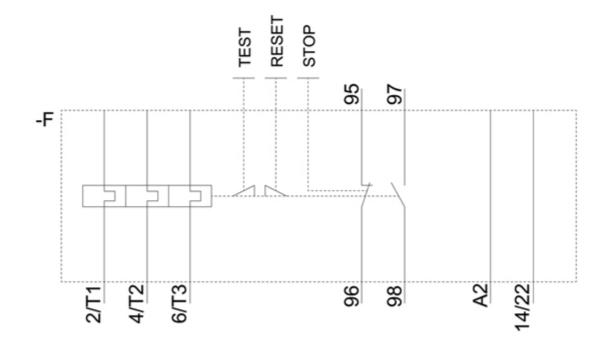
 at AC-3 rated value maximum 	690 V			
operating frequency rated value	50 60 Hz			
operational current rated value	4 A			
operating power at AC-3				
at 400 V rated value	1.5 kW			
 at 500 V rated value 	2.2 kW			
 at 690 V rated value 	3 kW			
Auxiliary circuit				
design of the auxiliary switch	integrated			
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				
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	1A			
operational current of auxiliary contacts at DC-13				
• at 24 V	2 A			
• at 24 V	0.3 A			
	0.22 A			
• at 110 V	0.22 A			
• at 125 V				
• 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	CLASS 10 thermal			
design of the overload release UL/CSA ratings				
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	thermal 4 A			
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			
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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	thermal 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A			
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	thermal 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any			
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	thermal 4 A 4 A 4 A fuse gG: 6 A, quick: 10 A any Contactor mounting			
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type of connectable	e conductor cross-sec	tions						
 for auxiliary co 	ontacts							
— solid or si	— solid or stranded			5 mm²), 2x (0	,75 2,5 mm²)			
 finely stranded with core end processing 			2x (0.5 1.5	5 mm²), 2x (0	.75 2.5 mm²)			
at AWG cables for auxiliary contacts			2x (20 16)	, 2x (18 14	4)			
tightening torque								
• for main contacts with screw-type terminals			0.8 1.2 N·	m				
 for auxiliary co 	intacts with screw-type t	erminals	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 conta 	cts		M3					
 of the auxiliary 	 of the auxiliary and control contacts 							
Safety related data								
failure rate [FIT] with	low demand rate acc. t	o SN 31920	50 FIT					
MTTF with high demand rate			2 280 y					
T1 value for proof test interval or service life acc. to			20 y					
IEC 61508		-						
protection class IP on the front acc. to IEC 60529		IP20						
touch protection on the front acc. to IEC 60529		finger-safe, f	or vertical co	ntact from the front				
Display								
display version for switching status			Slide switch					
Certificates/ approva	ls							
General Product A	nnroval				For use in hazardou	is locations		
CSA	ccc	UL			ATEX	IECEX		
Declaration of Con	formity	Test Certifica	ates		Marine / Shipping			
C C EG-Konf.	<u>Miscellaneous</u>	<u>Type Tes</u> <u>Certific-ates/</u> <u>Report</u>		<u>ecial Test</u> ertific-ate	ABS			
Marine / Shipping						other		
Llovds Register us	PRS	RINA		RMRS R		<u>Confirmation</u>		
Railway								
Vibration and Shock								

Further information







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