SIEMENS

Data sheet

3RU2116-4AB0



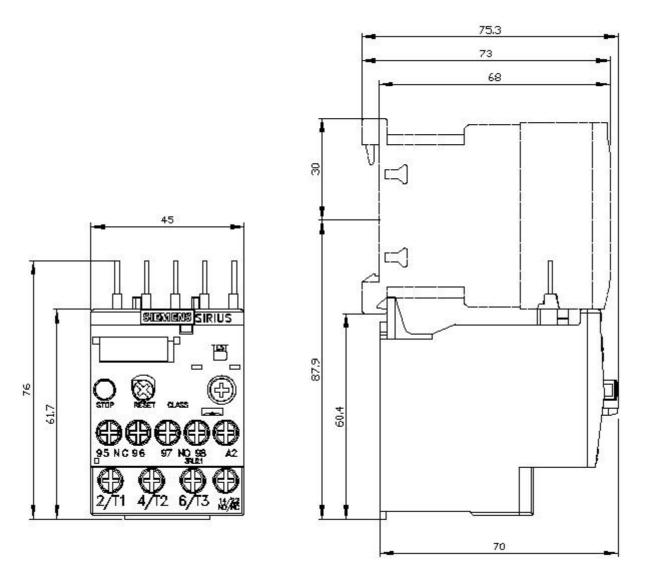
Overload relay 11...16 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

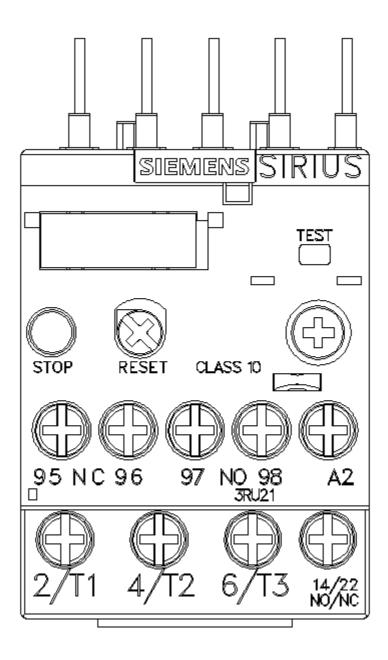
product designation product type designation	thermal overload relay 3RU2				
	3RU2				
Compared to obvice of date	3RU2				
General technical data					
size of overload relay	S00				
size of contactor can be combined company-specific	S00				
power loss [W] for rated value of the current at AC in hot operating state	8.1 W				
• per pole	2.7 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	11 16 A				
operating voltage					
rated value	690 V				

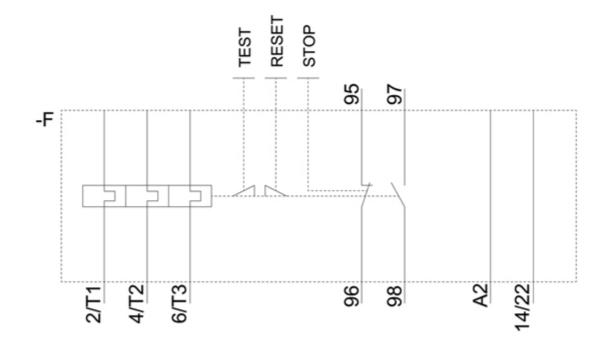
 at AC-3 rated value maximum 	690 V				
operating frequency rated value	50 60 Hz				
operational current rated value	16 A				
operating power at AC-3					
at 400 V rated value	7.5 kW				
• at 500 V rated value	7.5 kW				
• at 690 V rated value	11 kW				
Auxiliary circuit					
design of the auxiliary switch	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 2 A				
● at 230 V ● at 400 V	2 A 1 A				
	TA				
operational current of auxiliary contacts at DC-13	2 A				
• at 24 V	0.3 A				
• at 60 V					
• 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					
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	10.0				
	16 A 16 A				
• at 600 V rated value	10 A				
Short-circuit protection					
design of the fuse link					
<pre>design of the fuse link</pre>	fuse gG: 6 A, quick: 10 A				
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions	fuse gG: 6 A, quick: 10 A				
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	any				
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions					
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position	any				
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	any Contactor mounting				
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	any Contactor mounting 76 mm				
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	any Contactor mounting 76 mm 45 mm				
design of the fuse link • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width depth	any Contactor mounting 76 mm 45 mm				
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	any Contactor mounting 76 mm 45 mm 70 mm				
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	any Contactor mounting 76 mm 45 mm 70 mm				
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	any Contactor mounting 76 mm 45 mm 70 mm				
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	any Contactor mounting 76 mm 45 mm 70 mm No				
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	any Contactor mounting 76 mm 45 mm 70 mm No Screw-type terminals screw-type terminals				
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	any Contactor mounting 76 mm 45 mm 70 mm No Screw-type terminals screw-type terminals				
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 type of connectable conductor cross-sections	any Contactor mounting 76 mm 45 mm 70 mm No Screw-type terminals screw-type terminals Top and bottom				
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 type of connectable conductor cross-sections • for main contacts	any Contactor mounting 76 mm 45 mm 70 mm No Screw-type terminals screw-type terminals				

	e conductor cross-sec	tions						
 for auxiliary co 								
- solid or st	— solid or stranded			nm²), 2x (0,	75 2,5 mm²)			
— finely stra	2x (0.5 1.5 r	mm²), 2x (0.	75 2.5 mm²)					
 at AWG cables 	2x (20 16), 2	2x (18 14)					
tightening torque								
 for main conta 	0.8 1.2 N·m							
 for auxiliary co 	ntacts with screw-type	terminals	0.8 1.2 N·m					
design of screwdriv	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	M3				
 of the auxiliary 	and control contacts		M3					
Safety related data								
	low demand rate acc. t	to SN 31920	50 FIT					
MTTF with high der			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 or	the front acc. to IEC	60529	finger-safe, for	vertical cor	ntact from the front			
Display								
display version for sv	display version for switching status							
Certificates/ approva	ls							
General Product A					For use in hazardou	is locations		
CSA	ccc	UL	•		IECEx	ATEX		
Declaration of Con	formity	Test Certifica	ates		Marine / Shipping			
CE EG-Konf.	<u>Miscellaneous</u>	<u>Type Tes</u> <u>Certific-ates/</u> <u>Report</u>		<u>cial Test</u> tific-ate	ABS	BUREAU VERITAS		
Marine / Shipping						other		
Lloyd's Register	PRS	RINA	Ć	RMRS R	DNV-GL	<u>Confirmation</u>		
Railway								
Vibration and Shock								

Further information







last modified:

12/15/2020 🖸