SIEMENS

Data sheet

3RU2116-1HJ0



Overload relay 5.5...8.0 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Ring cable lug Auxiliary circuit: ring cable lug Manual-Automatic-Reset

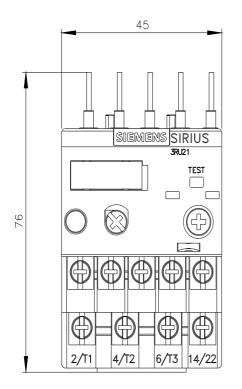
product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	6.6 W
• per pole	2.2 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 protective separation 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 according 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 according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
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	5.5 8 A
operating voltage	
rated value	690 V
• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	8 A
operational current at AC-3e at 400 V rated value	8 A
operating power	

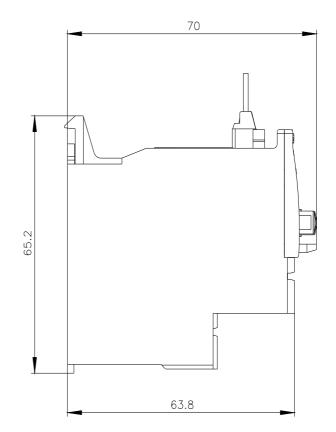
• at AC-3			
— at 400 V rated value	3 kW		
— at 500 V rated value	4 kW		
— at 690 V rated value	5.5 kW		
• at AC-3e			
— at 400 V rated value	3 kW		
— at 500 V rated value	4 kW		
— at 690 V rated value	5.5 kW		
Auxiliary circuit			
design of the auxiliary switch	integrated		
number of NC contacts for 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		
• at 690 V	0.75 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 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 8 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 8 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	thermal 8 A		
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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 mounting position fastening method height	thermal 8 A 8 A 8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm		
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 height width	thermal 8 A 8 A 8 A 9 A 9 A 9 A 9 A 9 A 9 A 9 A 9 A 9 A 9		
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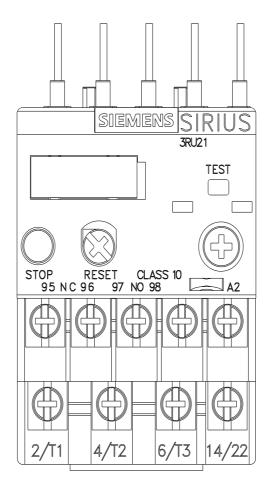
for main contacts		M3		
 of the auxiliary and control contacts 		M3		
Safety related data				
failure rate [FIT] with low demand rate according to SN 31920 50 FIT		50 FIT		
MTTF with high demand rate		2 280 a		
T1 value for proof test interval or service life according to IEC 61508		20 a		
protection class IP on the front according to IEC 60529 IP00		IP00		
Display				
display version for switching status		Slide switch		
Certificates/ approvals				
General Product Approval			For use in hazardous	locations
Confirmation ccc	(J) u	EHC	IECE×	ATEX ATEX
Declaration of Conformity	Test Certificate	s	Marine / Shipping	
UK CE CA CE	<u>Special Test Ce</u> <u>ate</u>	rtific- <u>Type Test Certific</u> ates/Test Report	ABS	
Marine / Shipping				other
Llovd's Register	PRS	RINA	RMRS	<u>Confirmation</u>
Railway				

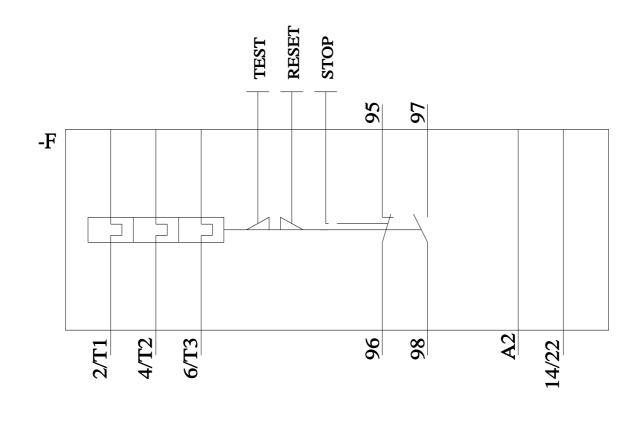
Vibration and Shock

Siemens has decided to exit the Russian market (see here). https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business Siemens is working on the renewal of the current EAC certificates. Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus). Information on the packaging :om/cs/ww/en/view/109813875 https://support.industry.sie Information- and Downloadcenter (Catalogs, Brochures,...) https://www.siemens.com/ic10 Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-1HJ0 Cax online generator .automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1HJ0 http Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1HJ0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1HJ0&lang=en Characteristic: Tripping characteristics, I2t, Let-through current https://suppo emens.com/cs/ww/en/ps/3F U2116-1 Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1HJ0&objecttype=14&gridview=view1









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