## SIEMENS

## Data sheet

## 3RU2116-1CJ0



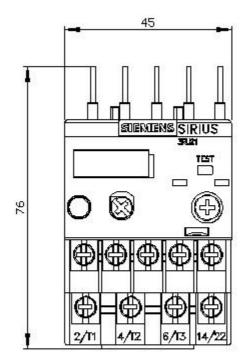
Overload relay 1.8...2.5 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Ring cable lug Auxiliary circuit: ring cable lug Manual-Automatic-Reset

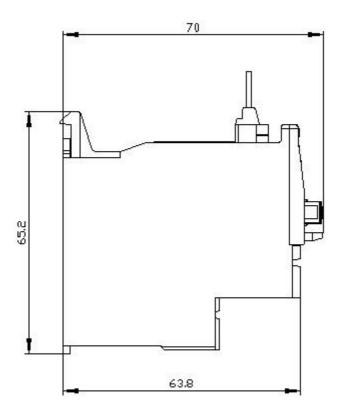
product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	5.7 W
• per pole	1.9 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	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	440 V
<ul> <li>between main and auxiliary circuit</li> </ul>	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
<ul> <li>ambient temperature during operation</li> </ul>	-40 +70 °C
<ul> <li>ambient temperature during storage</li> </ul>	-55 +80 °C
<ul> <li>ambient temperature during transport</li> </ul>	-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	1.8 2.5 A
operating voltage rated value	690 V

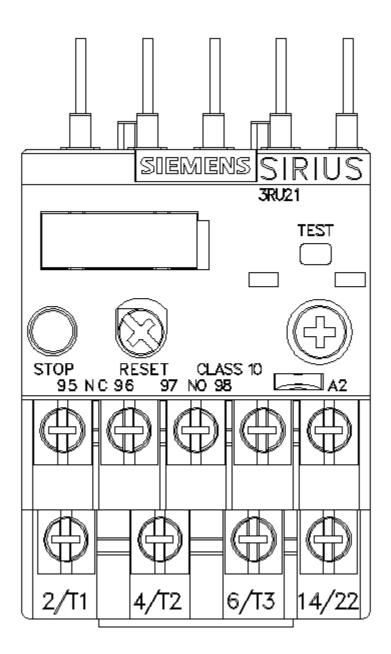
operating frequency rated value	50 60 Hz		
operational current rated value	2.5 A		
operating power at AC-3			
<ul> <li>at 400 V rated value</li> </ul>	0.75 kW		
<ul> <li>at 500 V rated value</li> </ul>	1.1 kW		
at 690 V rated value	1.5 kW		
Auxiliary circuit			
design of the auxiliary switch	integrated		
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		
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 2.5 A		
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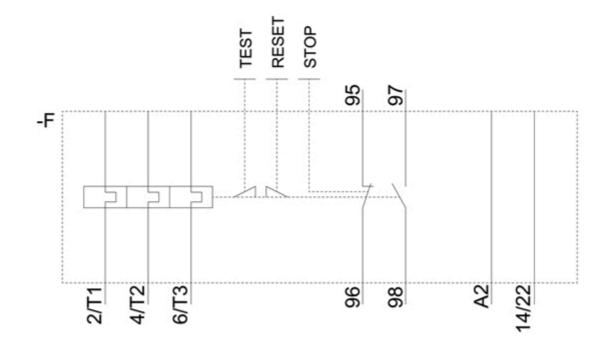
design of the thread of the connect	tion screw				
<ul> <li>for main contacts</li> </ul>		M3			
<ul> <li>of the auxiliary and control con</li> </ul>	tacts	M3			
Safety related data					
failure rate [FIT] with low demand rate acc. to SN 31920		50 FIT			
MTTF with high demand rate		2 280 y			
T1 value for proof test interval or service life acc. to IEC 61508		20 y			
protection class IP on the front acc. to IEC 60529		IP00			
Display					
display version for switching status		Slide switch			
Certificates/ approvals					
General Product Approval			For use in hazard	ous locations	
		EHC	IECEx	ATEX	
Declaration of Conformity	Test Certifica	ites	Marine / Shipping	l	
Miscellaneous EG-Konf.	<u>Type Tesi</u> <u>Certificates/T</u> <u>Report</u>	<u>Special Test</u> est <u>Certificate</u>	ABS	BUREAU VERITAS	
Marine / Shipping				other	
Lins Prs	() RINA	RMRS RMRS	DNV-GL DNV-GL DWGLCDEXE	<u>Confirmation</u>	
Railway					
Vibration and Shock					
Further information					

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last modified:

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