## SIEMENS

## Data sheet

## 3RU2116-0DC1



Overload relay 0.22...0.32 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

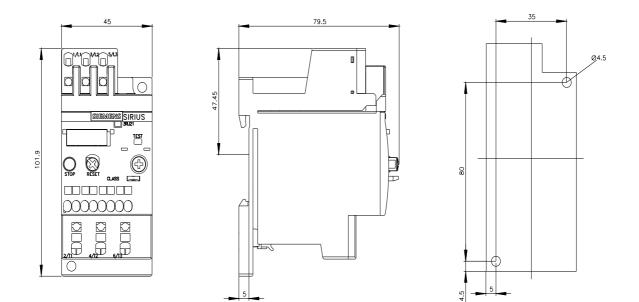
product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	
size of overload relay	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	4.8 W
• per pole	1.6 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 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	
<ul> <li>during operation</li> </ul>	-40 +70 °C
<ul> <li>during storage</li> </ul>	-55 +80 °C
<ul> <li>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	0.22 0.32 A
operating voltage	
<ul> <li>rated value</li> </ul>	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	0.32 A
operational current at AC-3e at 400 V rated value	0.32 A

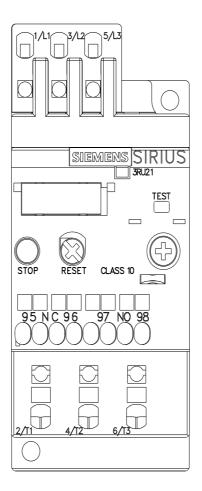
operating power	
• at AC-3	0.00 HW
— at 400 V rated value	0.09 kW 0.12 kW
— at 500 V rated value — at 690 V rated value	0.12 KW
• at AC-3e	0.12 KVV
- at 400 V rated value	0.09 kW
— at 500 V rated value	0.12 kW
— at 690 V rated value	0.12 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
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 ● at 220 V	0.22 A 0.11 A
• at 220 v contact rating of auxiliary contacts according to UL	B600 / R300
	6007 1000
Protective and monitoring functions	
trin close	
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 0.32 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
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 0.32 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	thermal 0.32 A 0.32 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	thermal 0.32 A 0.32 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 0.32 A 0.32 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	thermal 0.32 A 0.32 A 0.32 A fuse gG: 6 A, quick: 10 A any stand-alone installation
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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 width	thermal 0.32 A 0.32 A 0.32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 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 depth Connections/ Terminals	thermal 0.32 A 0.32 A 0.32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 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 depth	thermal 0.32 A 0.32 A 0.32 A fuse gG: 6 A, quick: 10 A any stand-alone installation 102 mm 45 mm 79 mm
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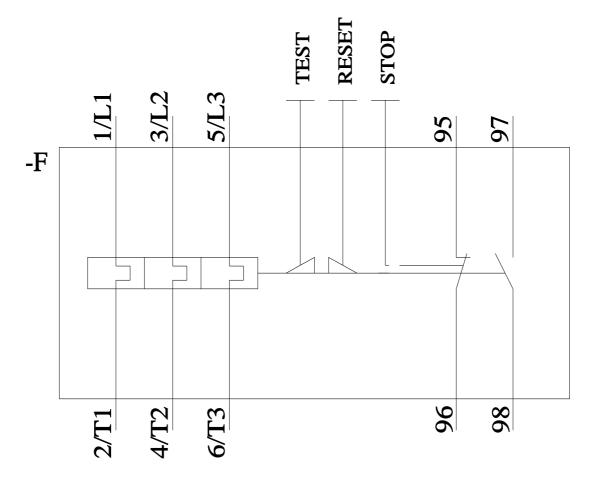
- finely stra • at AWG cables design of screwdriv size of the screwdriv Safety related data	randed nded with core end proces nded without core end pro s for auxiliary contacts <b>/er shaft</b>	sing 2 cessing 2 2 2 3	2x (0.5 2.5 mm²) 2x (0.5 1.5 mm²), 2x (0.75 2x (0.5 1.5 mm²) 2x (20 14) Diameter 3 mm 3,0 x 0,5 mm 50 FIT	2.5 mm²)		
31920						
MTTF with high demand rate T1 value for proof test interval or service life according to			2 280 y 20 y			
IEC 61508			20 y			
protection class IP 60529	on the front according to	IEC	P20			
touch protection on	the front according to I	EC 60529 f	inger-safe, for vertical conta	ct from the front		
Display						
display version for sv	-	5	Slide switch			
Certificates/ approva	ls					
General Product A	pproval				For use in hazard- ous locations	
For use in hazard- ous locations	Confirmation Declaration of Confor	-	UL UL Test Certificates	EAC	IECEx Marine / Shipping	
ATEX Marine / Shipping	CE EG-Konf.	UK CA	<u>Special Test Certific-</u> <u>ate</u>	Type Test Certific- ates/Test Report	ABS	
BUREAU VERITAS		Lloyds Register uis	PRS	RINA	RMRS	
other	Railway					
<u>Confirmation</u>	Vibration and Shock					

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Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0DC1/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0DC1&objecttype=14&gridview=view1







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