## SIEMENS

## Data sheet

## 3RU2116-0HJ0



Overload relay 0.55...0.80 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 brand name product designation	thermal overload relay
product designation	3RU2
General technical data	51102
	000
size of overload relay	S00 S00
size of contactor can be combined company-specific	
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
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	0.55 0.8 A
operating voltage	
rated value	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz

anarational aurrent rated value	0.9.4
operational current rated value	0.8 A
operational current at AC-3e at 400 V rated value	0.8 A
operating power	
• at AC-3	0.40 JW
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 kW
• at AC-3e	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 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
design of the overload release	thermal
_	arennar
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
• at 480 V rated value	0.8 A
• at 600 V rated value	0.8 A
Short-circuit protection	
design of the fuse link	
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 6 A, quick: 10 A
required	
Installation/ mounting/ dimensions	
mounting position	any
fastening method	Contactor mounting
height	76 mm
width	45 mm
depth	70 mm
Connections/ Terminals	
product component removable terminal for auxiliary	No
and control circuit	
type of electrical connection	Dian achta lun anns a'im
• for main current circuit	Ring cable lug connection
for auxiliary and control circuit	ring terminal lug connection
arrangement of electrical connectors for main current circuit	Top and bottom
tightening torque	1.2 0.8 N·m
<ul> <li>for main contacts for ring cable lug</li> <li>for auxiliary contacts for ring cable lug</li> </ul>	0.8 1.2 N·m
	U.O 1.Z [N']]]

outer diameter of the	e usable ring cable lug n	naximum	7.5 mm		
design of screwdriver shaft			Diameter 5 6 mm		
size of the screwdriv	size of the screwdriver tip		Pozidriv PZ 2		
design of the thread	of the connection screw	v			
for main contacts			M3		
<ul> <li>of the auxiliary and control contacts</li> </ul>			M3		
Safety related data					
failure rate [FIT] with low demand rate according to SN 31920		g to SN	50 FIT		
MTTF with high demand rate			2 280 у		
T1 value for proof test interval or service life according to IEC 61508		cording to	20 у		
protection class IP on the front according to IEC 60529		IEC	IP00		
Display					
display version for sw	itching status		Slide switch		
Certificates/ approval	S				
General Product Ap	proval				For use in hazard- ous locations
(SP)		Confirmation		EAC	
For use in hazard- ous locations	Declaration of Conform	mity	Test Certificates		Marine / Shipping
	Declaration of Conform	mity	Test Certificates <u>Special Test Certificates</u> <u>ate</u>	<u>Type Test Certific-</u> ates/Test Report	
	CE	mity	Special Test Certific-	<u>Type Test Certific-</u> ates/Test Report	
	CE	mity Hoyds Register LRS	Special Test Certific-	Type Test Certific- ates/Test Report	
ous locations	EG-Konf.	Hoyds	Special Test Certific-	Type Test Certificates/Test Report	



Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0HJ0&objecttype=14&gridview=view1

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