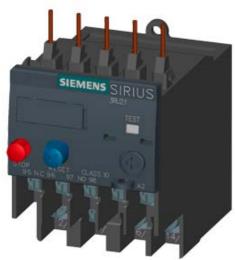
## **SIEMENS**

Data sheet 3RU2116-1KJ0



OVERLOAD RELAY 9.0...12.5 A FOR MOTOR
PROTECTION BGR S00, CLASS 10 FOR MOUNTING
ONTO CONTACTORS MAIN CIRCUIT:RING
TERMINAL END AUXILARY CIRCUIT:RING
TERMINAL END MANUAL-AUTOMATIC-RESET

product brand name	SIRIUS
product brana namo	
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Product designation	3RU2 thermal overload relay
_	· ·

General technical data:			
Active power loss total typical	W	5.1	
Insulation voltage			
<ul> <li>with degree of pollution 3 Rated value</li> </ul>	V	690	
Shock resistance			
• acc. to IEC 60068-2-27		8g / 11 ms	
Surge voltage resistance Rated value	kV	6	
Temperature compensation	°C	-40 <b>+</b> 60	
Size of contactor can be combined company-specific		S00	
Type of assignment		2	
Protection class IP			
• on the front		IP20	
<ul><li>of the terminal</li></ul>		IP20	
Equipment marking			
• acc. to DIN EN 81346-2		F	

Main circuit:			
Number of poles for main current circuit		3	
Adjustable response value current of the current- dependent overload release	Α	9 12.5	
Operating voltage			
Rated value	V	690	
<ul> <li>at AC-3 Rated value maximum</li> </ul>	V	690	
Operating frequency Rated value	Hz	50 60	

Operating current Rated value	Α	12.5
Operating current		
• at AC-3		
— at 400 V Rated value	Α	12.5
Auxiliary circuit:		
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		
<ul> <li>for auxiliary contacts</li> </ul>		0
Design of the auxiliary switch	_	integrated
Operating current of the auxiliary contacts at AC-15		
● at 24 V	Α	3
● at 110 V	Α	3
● at 120 V	Α	3
● at 125 V	Α	3
● at 230 V	Α	2
● at 400 V	Α	1
Operating current of the auxiliary contacts at DC-13		
● at 24 V	Α	2
● at 110 V	Α	0.22
● at 125 V	Α	0.22
• at 220 V	Α	0.11
Protective and monitoring functions:		
Trip class		CLASS 10
Design of the overload circuit breaker		thermal
UL/CSA ratings:		
Full-load current (FLA) for three-phase AC motor		
• at 480 V Rated value	Α	12.5
● at 600 V Rated value	Α	12.5
Contact rating of the auxiliary contacts acc. to UL		B600 / R300
Installation/ mounting/ dimensions:		
mounting position		any
Mounting type		direct mounting
Height	mm	76
Width	mm	45
Depth	mm	70
Required spacing		

<ul><li>with side-by-side mounting</li></ul>		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6
• for grounded parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— at the side	mm	6
— downwards	mm	6
• for live parts		
— forwards	mm	0
— Backwards	mm	0
— upwards	mm	6
— downwards	mm	6
— at the side	mm	6

Connections/ Terminals:		
Type of electrical connection		
for main current circuit		ring cable connection
<ul> <li>for auxiliary and control current circuit</li> </ul>		ring cable connection
Arrangement of electrical connectors for main current circuit		Top and bottom
Product function		
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>		No
Tightening torque		
• for ring cable lug		
— for main contacts	N·m	1.2 0.8
— for auxiliary contacts	N·m	0.8 1.2
Outer diameter of the usable ring cable lug maximum	mm	7.5
Design of screwdriver shaft		5 to 6 mm diameter
Design of the thread of the connection screw		
• for main contacts		M3
<ul> <li>of the auxiliary and control contacts</li> </ul>		M3

Safety related data:		
Proportion of dangerous failures		
<ul> <li>with low demand rate acc. to SN 31920</li> </ul>	%	50
<ul> <li>with high demand rate acc. to SN 31920</li> </ul>	%	50

Failure rate [FIT] with low demand rate acc. to SN	FIT	50
31920		
MTTF with high demand rate	у	2 280
T1 value for proof test interval or service life acc. to	у	20
IEC 61508		
Protection against electrical shock		finger-safe
Protection against electrical shock		finger-safe

Mechanical data:

Size of overload relay S00

Ambient conditions:			
Installation altitude at height above sea level maximum	m	2 000	
Ambient temperature			
<ul><li>during operation</li></ul>	°C	-40 <b>+</b> 70	
during storage	°C	-55 <b>+</b> 80	
<ul> <li>during transport</li> </ul>	°C	-55 <b>+</b> 80	
Relative humidity during operation	%	0 90	

Display

Display version

• for switching status Slide switch

#### Certificates/ approvals:

General Product Approval	For use in	Declaration of
	hazardous	Conformity
	locations	













## **Test Certificates**

## **Shipping Approval**

Special Test Certificate Type Test
Certificates/Test
Report







other



GL

## **Shipping Approval**



LRS



RINA



Environmental Confirmations

#### Further information

### Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

#### Industry Mall (Online ordering system)

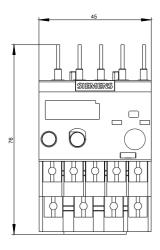
http://www.siemens.com/industrymall

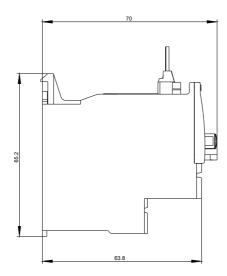
#### Cax online generator

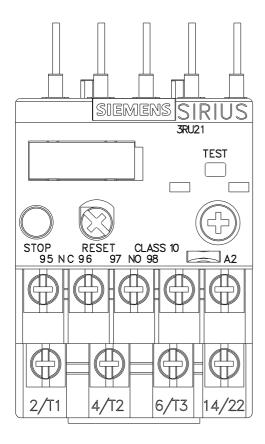
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU21161KJ0

# Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RU21161KJ0/all

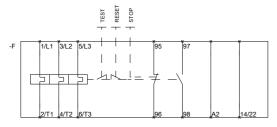
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU21161KJ0&lang=en







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last modified:

11.03.2015