## SIEMENS

## Data sheet

## 3RU2116-1KJ0



Overload relay 9.0...12.5 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				
product brand name	SIRIUS			
product designation	thermal overload relay 3RU2			
product type designation	JRUZ			
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 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			
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	9 12.5 A			
operating voltage				
<ul> <li>rated value</li> </ul>	690 V			
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V			
operating frequency rated value	50 60 Hz			

operational current rated value	12.5 A
operating power at AC-3	12.0 A
at 400 V rated value	5.5 kW
at 500 V rated value	7.5 kW
at 690 V rated value	7.5 kW
Auxiliary circuit	7.5 KW
	integrated
design of the auxiliary switch number of NC contacts for auxiliary contacts	integrated
-	
note	for contactor disconnection 1
number of NO contacts for auxiliary contacts <ul> <li>note</li> </ul>	
	for message "Tripped" 0
number of CO contacts for auxiliary contacts operational current of auxiliary contacts at AC-15	0
• at 24 V	3 A
• at 21 V	3 A
• at 120 V	3 A
• at 125 V	3 A
• at 230 V	2 A
• at 200 V	1A
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
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
at 480 V rated value	12.5 A
at 600 V rated value	12.5 A
• at 600 V rated value	
at 600 V rated value Short-circuit protection	
at 600 V rated value Short-circuit protection design of the fuse link	12.5 A
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<ul> <li>at 600 V rated value</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the auxiliary switch</li> </ul>	12.5 A
<ul> <li>at 600 V rated value</li> <li>Short-circuit protection</li> <li>design of the fuse link         <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> </li> </ul>	12.5 A
at 600 V rated value Short-circuit protection design of the fuse link     o for short-circuit protection of the auxiliary switch     required Installation/ mounting/ dimensions	12.5 A fuse gG: 6 A, quick: 10 A
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the at 600 V rated value     Short-circuit protection     design of the fuse link <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> <li>Installation/ mounting/ dimensions         <ul> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> </ul> </li>	12.5 A fuse gG: 6 A, quick: 10 A any Contactor mounting
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Safety related data							
			50 FI1	50 FIT			
MTTF with high demand rate		2 280	у				
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 hazardous locations		
SP M	CCC			EHC	IECEx	K ATEX	
Declaration of Conformity	Test Certificates			Marine / Shipping			
CE EG-Konf.	Type Test Certific- ates/Test Report	Special Test Ce ate	<u>ertific-</u>	ABS	B UREAU VERITAS	Lloyd's Register uis	
Marine / Shipping					other	Railway	
PRS	RINA	RMRS		Ewystermen	<u>Confirmation</u>	Vibration and Shock	
Further information 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=3RU2116-1KJ0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1KJ0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

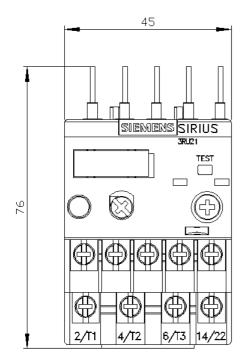
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1KJ0

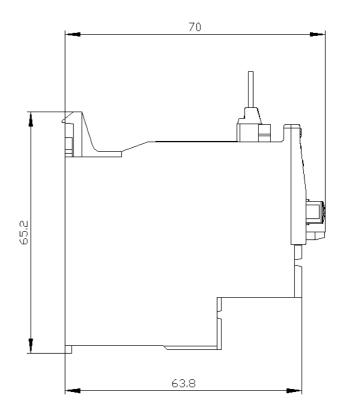
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2116-1KJ0&lang=en

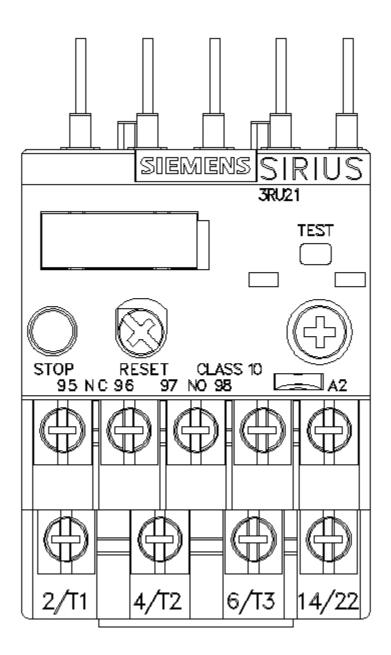
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

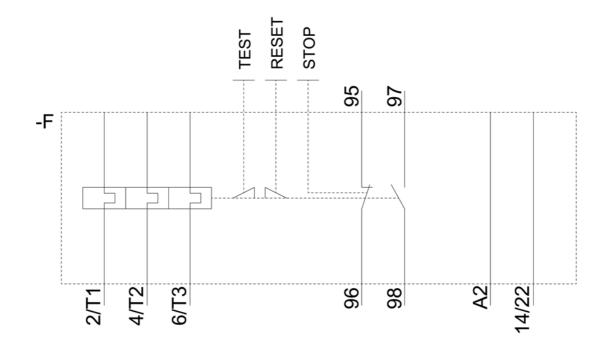
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1KJ0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1KJ0&objecttype=14&gridview=view1









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