SIEMENS

Data sheet

3RU2116-4AJ0



Overload relay 11...16 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	8.1 W			
• per pole	2.7 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				
 between auxiliary and auxiliary circuit 	440 V			
 between auxiliary and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	440 V			
 between main and auxiliary circuit 	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				
 during operation 	-40 +70 °C			
during storage	-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	11 16 A			
operating voltage				
rated value	690 V			
 at AC-3 rated value maximum 	690 V			
operating frequency rated value	50 60 Hz			

operational current rated value	16 A
operating power at AC-3	
at 400 V rated value	7.5 kW
at 500 V rated value	7.5 kW
at 690 V rated value	11 kW
Auxiliary circuit	
	integrated
design of the auxiliary switch	integrated
number of NC contacts for auxiliary contacts	
• note	for contactor disconnection
number of NO contacts for auxiliary contacts	1 far massage "Trianad"
note	for message "Tripped"
number of CO contacts for auxiliary contacts	0
operational current of auxiliary contacts at AC-15	0.A
• 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
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
 at 480 V rated value 	16 A
 at 600 V rated value 	16 A
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the auxiliary switch 	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	No
and control circuit type of electrical connection	
and control circuit type of electrical connection • for main current circuit	Ring cable lug connection
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit	Ring cable lug connection ring cable connection
and control circuit type of electrical connection • for main current circuit	Ring cable lug connection
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current	Ring cable lug connection ring cable connection
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit	Ring cable lug connection ring cable connection
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque • for main contacts for ring cable lug	Ring cable lug connection ring cable connection Top and bottom
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque • for main contacts for ring cable lug • for auxiliary contacts for ring cable lug	Ring cable lug connection ring cable connection Top and bottom 1.2 0.8 N·m
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque • for main contacts for ring cable lug • for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum	Ring cable lug connection ring cable connection Top and bottom 1.2 0.8 N·m 0.8 1.2 N·m
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque • for main contacts for ring cable lug • for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum design of screwdriver shaft	Ring cable lug connection ring cable connection Top and bottom 1.2 0.8 N·m 0.8 1.2 N·m 7.5 mm
and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit tightening torque • for main contacts for ring cable lug • for auxiliary contacts for ring cable lug outer diameter of the usable ring cable lug maximum design of screwdriver shaft size of the screwdriver tip	Ring cable lug connection ring cable connection Top and bottom 1.2 0.8 N·m 0.8 1.2 N·m 7.5 mm Diameter 5 6 mm
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Safety related data							
failure rate [FIT] with low demand rate acc. to SN 31920			50 FIT	Γ			
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 sv	display version for switching status			switch			
Certificates/ approva	ls						
General Product A	General Product Approval				For use in hazardous locations		
(SP)	CCC	(UL) ut		EHC	IECEx	K ATEX	
Declaration of Conformity	Test Certificates			Marine / Shipping			
CE EG-Konf.	Special Test Certific- ate	<u>Type Test Cer</u> ates/Test Re		ABS	BUREAU VERITAS	Hoyd's Register UIS	
Marine / Shipping					other	Railway	
PRS	RINA	KMRS RARES		DNV-GL ENVLICED	<u>Confirmation</u>	Vibration and Shock	
Further information Information- and Do	ownloadcenter (Catalog .com/ic10	gs, Brochures,.)				

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-4AJ0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-4AJ0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-4AJ0

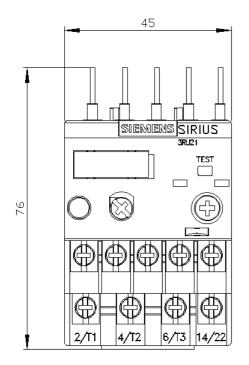
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-4AJ0&lang=en

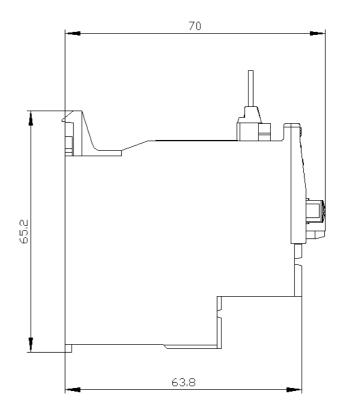
Characteristic: Tripping characteristics, I²t, Let-through current

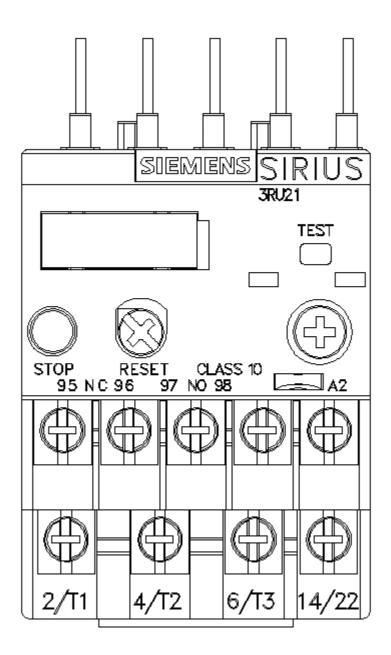
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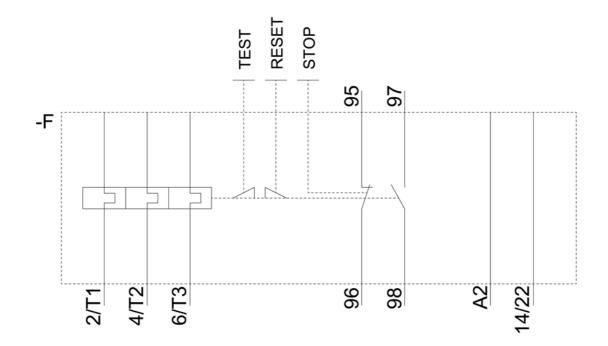
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-4AJ0&objecttype=14&gridview=view1









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