SIEMENS

Data sheet

3RU2116-1AJ0



Overload relay 1.1...1.6 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	5.7 W			
• per pole	1.9 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	1.1 1.6 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	1.6 A		
operating power at AC-3			
at 400 V rated value	0.55 kW		
at 500 V rated value	0.75 kW		
at 690 V rated value	0.75 kW 1.1 kW		
Auxiliary circuit	1.1 NVV		
design of the auxiliary switch	integrated		
number of NC contacts for auxiliary contacts	integrated		
note	1 for contractor disconnection		
number of NO contacts for auxiliary contacts	for contactor disconnection		
note			
number of CO contacts for auxiliary contacts	for message "Tripped" 0		
operational current of auxiliary contacts at AC-15	0		
• 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 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	2000 1 1000		
trip class	CLASS 10		
design of the overload release	thermal		
UL/CSA ratings	tromu		
full-load current (FLA) for 3-phase AC motor			
full-load current (FLA) for 3-phase AC motor	164		
• at 480 V rated value	1.6 A		
at 480 V rated valueat 600 V rated value	1.6 A 1.6 A		
at 480 V rated value at 600 V rated value Short-circuit protection			
at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link	1.6 A		
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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	1.6 A		
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	1.6 A fuse gG: 6 A, quick: 10 A any		
at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method	1.6 A fuse gG: 6 A, quick: 10 A		
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at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height	1.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm		
at 480 V rated value at 600 V rated value Short-circuit protection design of the fuse link ofor short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method height width	1.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm		
 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 	1.6 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm 45 mm		
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Safety related data					
failure rate [FIT] with low demand rate acc. to SN 31920			50 FIT		
MTTF with high demand rate		2 280 у			
T1 value for proof test interval or service life acc. to IEC 61508		20 у			
protection class IP on the front acc. to IEC 60529		IP00			
Display					
display version for switching status Slide switch			Slide switch		
Certificates/ approval	ls				
General Product A	oproval	For use in ha	For use in hazardous locations		
(Sfreedown) Contraction of the second		UL)	EA		IECEx
Declaration of Conformity	Test Certificates		Marine / St	iipping	
CE EG-Konf.	Special Test Certific- ate	<u>Type Test Cer</u> ates/Test Re	tific- port		Lloyd's Register uis
Marine / Shipping				other	Railway
PRS	RINA	KMRS RMRS	DNV-G	Confirmati	on <u>Vibration and Shock</u>
Further information Information- and Do	ownloadcenter (Catalog .com/ic10	gs, Brochures,.)		

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-1AJ0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1AJ0

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

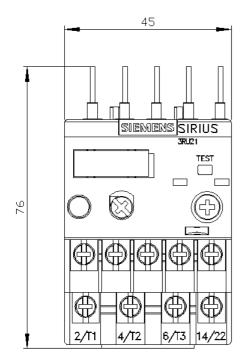
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1AJ0

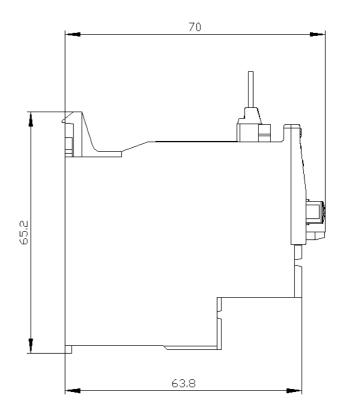
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1AJ0&lang=en

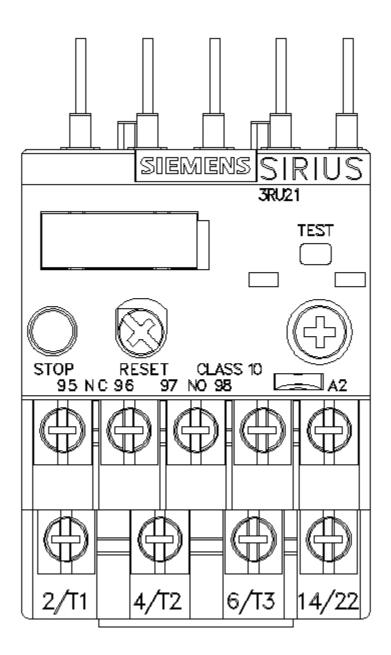
Characteristic: Tripping characteristics, I²t, Let-through current

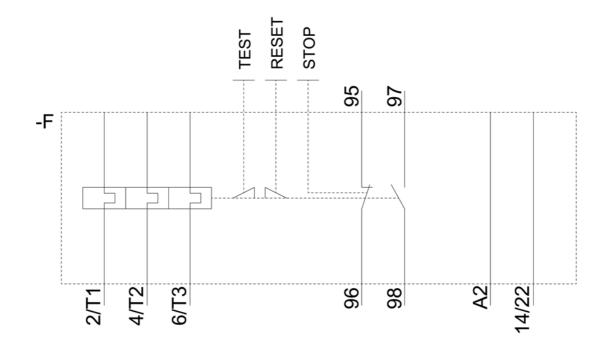
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1AJ0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1AJ0&objecttype=14&gridview=view1









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