SIEMENS

Data sheet

3RU2116-0JC0



Overload relay 0.70...1.0 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal 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	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 protective separation					
 in networks with ungrounded star point between auxiliary and auxiliary circuit 	440 V				
 in networks with grounded star point between auxiliary and auxiliary circuit 	440 V				
 in networks with ungrounded star point between main and auxiliary circuit 	440 V				
 in networks with grounded star point between main and auxiliary circuit 	440 V				
shock resistance according to IEC 60068-2-27	8g / 11 ms				
reference code according to IEC 81346-2	F				
Substance Prohibitance (Date)	10/01/2009				
SVHC substance name	Lead - 7439-92-1				
Weight	0.172 kg				
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 %				
Environmental footprint					
Global Warming Potential [CO2 eq] total	40 kg				
Global Warming Potential [CO2 eq] during manufacturing	1.01 kg				
global warming potential [CO2 eq] during sales	0.044 kg				
Global Warming Potential [CO2 eq] during operation	39 kg				
Global Warming Potential [CO2 eq] after end of life	0.022 kg				
Main circuit					
number of poles for main current circuit	3				
adjustable current response value current of the current-	0.7 1 A				

dependent overlaad relaces				
dependent overload release				
operating voltage				
rated value	690 V			
at AC-3e rated value maximum	690 V			
operating frequency rated value	50 60 Hz			
operational current rated value	1 A			
operational current at AC-3e at 400 V rated value	1 A			
operating power				
● at AC-3				
— at 400 V rated value	0.25 kW			
— at 500 V rated value	0.37 kW			
— at 690 V rated value	0.55 kW			
• at AC-3e				
— at 400 V rated value	0.25 kW			
— at 500 V rated value	0.37 kW			
— at 690 V rated value	0.55 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	1A			
• at 690 V	0.75 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	0.12 A			
contact rating of auxiliary contacts according to UL	B600 / R300			
Protective and monitoring functions	B0007 K300			
	01.400.40			
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	1A			
at 600 V rated value	1 A			
Short-circuit protection				
design of the fuse link				
 for short-circuit protection of the auxiliary switch required 	fuse gG: 6 A, quick: 10 A			
Installation/ mounting/ dimensions				
mounting position	any			
fastening method	Contactor mounting			
height	87 mm			
width	45 mm			
depth	70 mm			
Connections/ Terminals				
product component removable terminal for auxiliary and control circuit	No			
type of electrical connection				
for main current circuit	spring-loaded terminals			
 for auxiliary and control circuit 	spring-loaded terminals			
arrangement of electrical connectors for main current	Top and bottom			

circuit							
type of connectable co	nductor cross-section	IS					
for main contacts		15					
— solid or stran	ded		1x (0,5 4 mm²)				
	ed with core end proces	sina					
	ed without core end proces	0	1x (0.5 2.5 mm ²)				
-		cessing	1x (0.5 2.5 mm ²)				
for AWG cables for			1x (20 12)				
type of connectable co		IS					
 for auxiliary contact 							
— solid or stran			2x (0.5 2.5 mm²)				
 finely strande 	ed with core end proces	ssing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)				
 finely strande 	ed without core end pro	cessing	2x (0.5 1.5 mm²)				
 for AWG cables for 	r auxiliary contacts		2x (20 14)				
design of screwdriver s	shaft		Diameter 3 mm				
size of the screwdriver	tip		3,0 x 0,5 mm				
afety related data							
failure rate [FIT] with lo 31920	w demand rate accore	ding to SN	50 FIT				
MTTF with high deman	d rate		2 280 a				
IEC 61508							
T1 value							
 for proof test interv 61508 	val or service life accord	ding to IEC	20 a				
Electrical Safety							
protection class IP on t	he front according to	IEC 60529	IP20				
touch protection on the	front according to IE	C 60529	finger-safe, for vertical contact from the front				
Display							
display version for switch	ning status		Slide switch				
Approvals Certificates	-						
General Product Appro	oval						
	CE EG-Konf.	UK CA	Confirmatic		EHC		
For use in hazardous l	ocations		Test Certificat	es	Marine / Shipping		
	_	Measure	In Time Test O	tifia - Onacial Task Os 110			
IECEX	KEx ATEX	<u>Miscellaneor</u>	IS <u>Type Test Cer</u> ates/Test Rep		ABS		
Marine / Shipping							
BUREAU VERITAS		Lloyd's Register us	PRS	RINA	RMRS		
other		Railway	Environment				
<u>Miscellaneous</u>	<u>Confirmation</u>	<u>Special Test Ce</u> <u>ate</u>	rtific: EPD	Environmental Cor firmations	Ŀ		
urther information Information on the pac							

Information on the packaging https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RU2116-0JC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0JC0

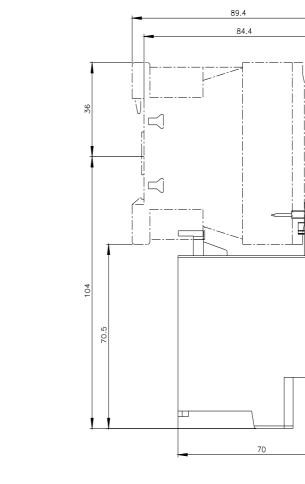
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

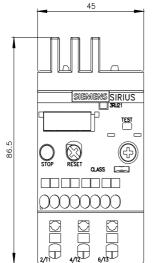
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0JC0

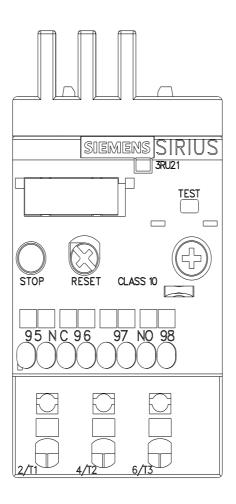
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0JC0&lang=en

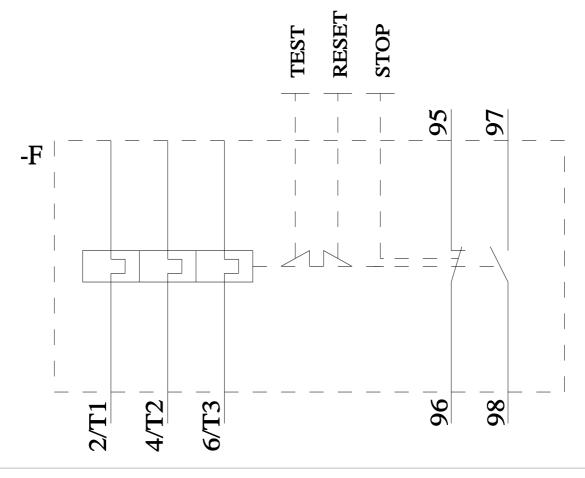
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0JC0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0JC0&objecttype=14&gridview=view1









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