SIEMENS

Data sheet

3RU2116-1CC0



Overload relay 1.8...2.5 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	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 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	0.175 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-	1.8 2.5 A

dependent workpageunder value• inder value600 V• inder value600 Voperating frequency rated value2.5 Aoperating incomer rated value2.5 Aoperating power2.5 A• all AC-3 to at 400 V rated value2.5 Aoperating power1.1 kW- at 400 V rated value1.5 kW- at 400 V rated value1.6 km- at 400 V rated value2.6 km- at 400 V rated value3.6 km- at 400 V rated value2.6 km- at 400 V rated value3.6 km- at 400 V3.6 km <th></th> <th></th>				
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	— at 400 V rated value	0.75 kW		
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	— at 690 V rated value	1.5 kW		
	• at AC-3e			
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• for short-circuit protection of the auxiliary switch required fuse gG: 6 A, quick: 10 A Installation/ mounting/ dimensions any mounting position any fastening method Contactor mounting height 87 mm width 45 mm depth 70 mm Connections/ Terminals No product component removable terminal for auxiliary and control circuit No type of electrical connection No				
Installation/ mounting/ dimensions any mounting position any fastening method Contactor mounting height 87 mm width 45 mm depth 70 mm Connections/ Terminals No product component removable terminal for auxiliary and control circuit No type of electrical connection No	-			
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 type of electrical connection No		tuse gG: 6 A, quick: 10 A		
fastening method Contactor mounting height 87 mm width 45 mm depth 70 mm Connections/Terminals 70 mm product component removable terminal for auxiliary and control circuit No type of electrical connection Volume				
height 87 mm width 45 mm depth 70 mm Connections/ Terminals Product component removable terminal for auxiliary and control circuit type of electrical connection No		any		
width 45 mm depth 70 mm Connections/ Terminals 70 mm product component removable terminal for auxiliary and control circuit No type of electrical connection No	fastening method			
depth 70 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit No type of electrical connection Volume	height	87 mm		
Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection	width	45 mm		
product component removable terminal for auxiliary and control circuit No type of electrical connection No	depth	70 mm		
control circuit type of electrical connection	Connections/ Terminals			
		No		
for main current circuit spring-loaded terminals	type of electrical connection			
	 for main current circuit 	spring-loaded terminals		
for auxiliary and control circuit spring-loaded terminals	 for auxiliary and control circuit 			
arrangement of electrical connectors for main current Top and bottom	· · · · · · · · · · · · · · · · · · ·			

airavit		_			
circuit	nductor croco contions				
	nductor cross-sections	•			
for main contacts			1x (0,5 4 mm²)		
	— solid or stranded				
-	ed with core end process	-	1x (0.5 2.5 mm²)		
-	ed without core end proc	essing	1x (0.5 2.5 mm²)		
 for AWG cables for 	 for AWG cables for main contacts 		1x (20 12)		
type of connectable co	nductor cross-sections	5			
 for auxiliary conta 	cts				
 — solid or strar 	nded		2x (0.5 2.5 mm²)		
— finely strand	ed with core end process	ing	2x (0.5 1.5 mm²), 2x	(0.75 2.5 mm²)	
 finely strand 	ed without core end proc	essing	2x (0.5 1.5 mm ²)		
 for AWG cables for 	or auxiliary contacts		2x (20 14)		
design of screwdriver	shaft		Diameter 3 mm		
size of the screwdriver	tip		3,0 x 0,5 mm		
Safety related data					
failure rate [FIT] with lo 31920	ow demand rate accord	ing to SN	50 FIT		
MTTF with high deman	d rate		2 280 a		
IEC 61508					
	val or service life accordi	ng to IEC	20 a		
61508		_			
Electrical Safety	the frent " t	EQ 00500	1000		
-	the front according to I		IP20		
-	e front according to IEC	60529	finger-safe, for vertical of	contact from the front	
Display		_			
display version for switch	hing status		Slide switch		
Approvals Certificates					
UK CA	<u>Confirmation</u>	CE EG-Konf.		EAC	IECEx
For use in hazardous I	ocations	Test Certificates	5	Marine / Shippir	ng
		0 .			(TVD)
KEx ATEX	<u>Miscellaneous</u>	<u>Special Test Cer</u> <u>ate</u>	tific- <u>Type Test Cer</u> <u>ates/Test Rep</u>		BUREAU VERITAS
Marine / Shipping					other
	Lloyd's Register uts	PRS	RINA	KMRS	<u>Miscellaneous</u>
other	Railway	Environment			
<u>Confirmation</u>	Special Test Certific- ate		Environmental firmations	Con-	
		EPD			

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=3RU2116-1CC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-1CC0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CC0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

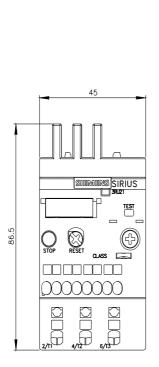
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-1CC0&lang=en

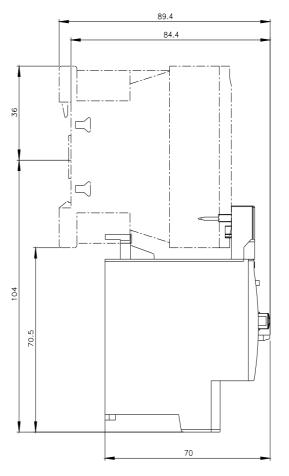
Characteristic: Tripping characteristics, I2t, Let-through current

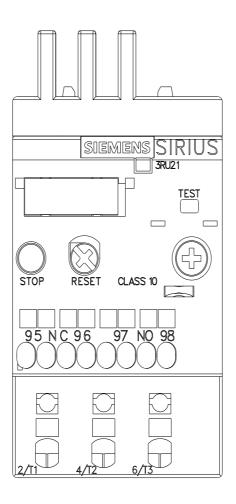
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1CC0/char

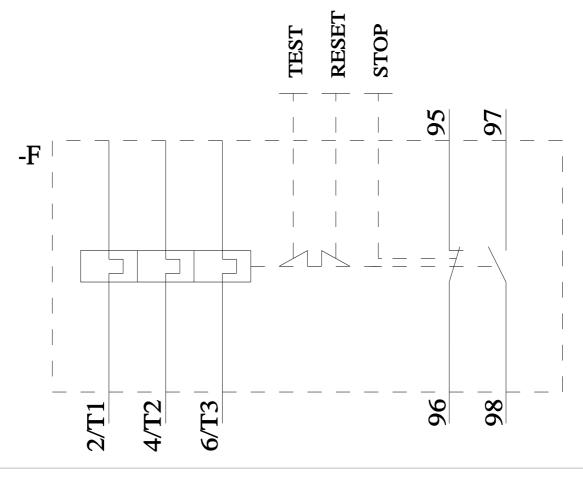
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1CC0&objecttype=14&gridview=view1









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