SIEMENS

Data sheet

3RU2116-0KC0



Overload relay 0.90...1.25 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	0.173 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-	0.9 1.25 A

dependent overland related	
dependent overload release	
operating voltage	2001/
rated value	690 V
at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	1.25 A
operational current at AC-3e at 400 V rated value	1.25 A
operating power	
• at AC-3	
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.55 kW
— at 690 V rated value	0.75 kW
• at AC-3e	
— at 400 V rated value	0.37 kW
— at 500 V rated value	0.55 kW
— at 690 V rated value	0.75 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	0.73 A
• at 24 V	2 A
• at 24 V	0.3 A
	0.22 A
• at 110 V	
• 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	1.3 A
• at 600 V rated value	1.3 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	No
control circuit	
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 cor	nductor cross-section	ns				
for main contacts						
— solid or stran	ded		1x (0,5 4 mm²)			
— finely stranded with core end processing		ssing	1x (0.5 2.5 mm ²)			
 finely stranded without core end processing 			1x (0.5 2.5 mm ²)			
 for AWG cables for 			1x (20 12)			
ype of connectable co		ns				
 for auxiliary contact 						
- solid or stranded		2x (0.5 2.5 mm²)				
— solid or stranded — finely stranded with core end processing			2x (0.5 2.5 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²)			
2	ed without core end proces	0				
 for AWG cables for 		Jeessing	-			
	-		2x (20 14) Diameter 3 mm			
size of the screwdriver	5					
	up	_	3,0 x 0,5 mm		_	
fety related data failure rate [FIT] with lo	w demand rate accor	ding to SN	50 FIT			
31920		2.290 a				
MTTF with high demand IEC 61508			2 280 a			
T1 value						
for proof test interval or service life according to IEC 61508		ding to IEC	20 a			
Electrical Safety						
protection class IP on t	he front according to	IEC 60529	IP20			
touch protection on the			finger-safe, for vertical contac	t from the front		
splay		_				
display version for switch oprovals Certificates	ing status		Slide switch			
General Product Appro		(6	Confirmation	ſ	C 0 7	
	UK	CE EG-Konf.	Confirmation	(UL)	EAC	
General Product Appro	UK CA	C C EG-Konf.	Confirmation Test Certificates	UL u	ERIC Marine / Shipping	
CCC	UK CA	EG-Konf.	Test Certificates	UL Special Test Certific- ate	ERC Marine / Shipping	
CCC For use in hazardous lo	UK CA	EG-Konf. Miscellaneous	Test Certificates		ERC Marine / Shipping	
For use in hazardous lo ECEX	UK CA	Miscellaneous	Test Certificates		ERC Marine / Shipping	
For use in hazardous lo ECEX	UK ocations \overline{k}	Lloyds Register	Test Certificates		ERC Marine / Shipping	
For use in hazardous la ECEX Marine / Shipping ECEX	UK ocations \overline{k}	Llovds Register us	S Test Certificates S Type Test Certific- ates/Test Report Frs Environment		ERC Marine / Shipping	
For use in hazardous la ECEX Marine / Shipping ECEX Marine / Shipping CONTRACTOR	UK ocations	Llovds Lks Railway Special Test Cert	S Test Certificates S Type Test Certific- ates/Test Report Frs Environment	ate	ERIC Marine / Shipping	
ECEX Marine / Shipping ECEX Marine / Shipping Miscellaneous	UCA ocations	Llovds Lks Railway Special Test Cert	S Test Certificates S Type Test Certific- ates/Test Report Frs Environment	ate	ERC Marine / Shipping	

https://www.siemens.com/ic10

86.5

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU2116-0KC0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0KC0

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

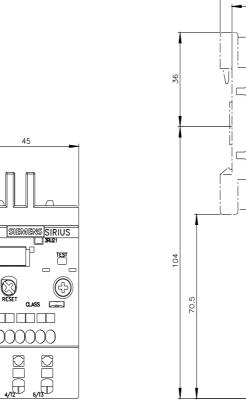
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0KC0

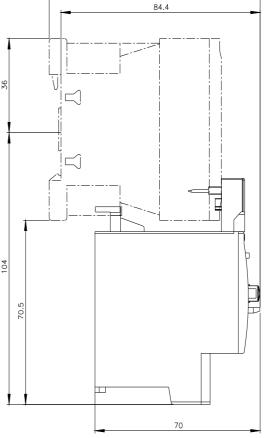
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0KC0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

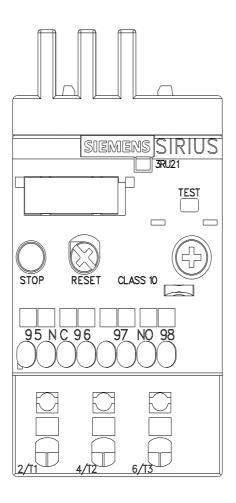
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0KC0/char

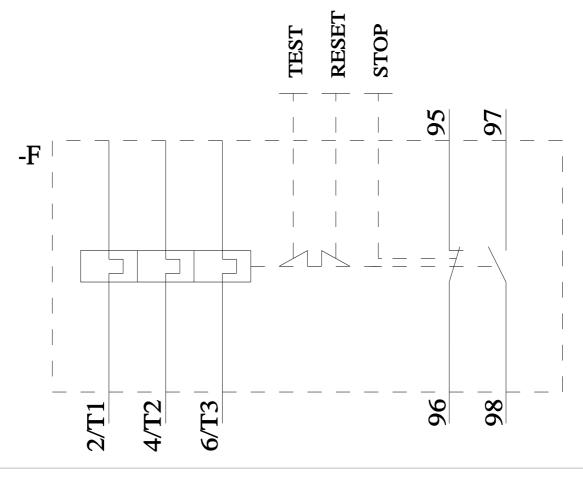
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0KC0&objecttype=14&gridview=view1





89.4





last modified:

11/9/2024 🖸