## SIEMENS

## Data sheet

## 3RU2116-1HC0



Overload relay 5.5...8.0 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: spring-type terminal Manual-Automatic-Reset

	0171110
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	6.6 W
per pole	2.2 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	
<ul> <li>in networks with ungrounded star point between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with ungrounded star point between main and auxiliary circuit</li> </ul>	440 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	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	0.177 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
<ul> <li>during transport</li> </ul>	-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	5.5 8 A
operating voltage	
rated value	690 V
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V
operating frequency rated value	50 60 Hz
operational current rated value	

operational current at AC-3e at 400 V rated value	8 A
operational current at AC-SC at 455 V rated value	
• at AC-3	
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 kW
• at AC-3e	
— at 400 V rated value	3 kW
— at 500 V rated value	4 kW
— at 690 V rated value	5.5 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	0.11 A
contact rating of auxiliary contacts according to UL	B600 / R300
contact rating of auxiliary contacts according to UL Protective and monitoring functions	B600 / R300
	B600 / R300 CLASS 10
Protective and monitoring functions trip class design of the overload release	
Protective and monitoring functions trip class design of the overload release UL/CSA ratings	CLASS 10
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	CLASS 10 thermal
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	CLASS 10 thermal 8 A
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	CLASS 10 thermal
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value Short-circuit protection	CLASS 10 thermal 8 A
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Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • 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	CLASS 10 thermal 8 A 8 A 8 A 9 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • 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	CLASS 10 thermal 8 A 8 A 8 A 9 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm 45 mm
Protective and monitoring functions trip class design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor <ul> <li>at 480 V rated value</li> <li>at 600 V rated value</li> </ul> <li>Short-circuit protection design of the fuse link             <ul> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/ mounting/ dimensions mounting position fastening method height width depth</li> </ul></li>	CLASS 10 thermal 8 A 8 A 8 A 9 A fuse gG: 6 A, quick: 10 A any Contactor mounting 87 mm
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for AWG cables for m	nain contacts		1x (20	. 12)		
upo of connectable cand						
	uctor cross-section	าร				
<ul> <li>for auxiliary contacts</li> </ul>						
- solid or strande	d			2.5 mm²)		
— finely stranded	with core end proces	ssing		1.5 mm²), 2x (0.75 .	2.5 mm²)	
— finely stranded	without core end pro	ocessing	2x (0.5	1.5 mm²)		
<ul> <li>for AWG cables for a</li> </ul>	uxiliary contacts		2x (20	. 14)		
design of screwdriver shaft		Diameter 3 mm				
ize of the screwdriver tip	)		3,0 x 0,5	i mm		
fety related data			_			
ailure rate [FIT] with low o 1920	demand rate accor	ding to SN	50 FIT			
ITTF with high demand rate		2 280 a				
EC 61508						
1 value						
for proof test interval or service life according to IEC     61508		20 a				
electrical Safety						
rotection class IP on the	front according to	IEC 60529	IP20			
ouch protection on the fr	ont according to IE	EC 60529	finger-sa	afe, for vertical contac	t from the front	
isplay version for switching	g status		Slide sw	itch		
provals Certificates						
					71111 \	
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For use in hazardous loca		EG-Konf.	1	Fest Certificates	Ŵ	<b>EHL</b> Marine / Shippin
For use in hazardous loca		EG-Konf. Miscellaneo		Test Certificates Special Test Certific- ate	<u>Type Test Certific- ates/Test Report</u>	LHL Marine / Shippin
IECEx				Special Test Certific-		۲
For use in hazardous loca ECEX IECEX Marine / Shipping				Special Test Certific-		۲
IECEX		Miscellaneo	ius S	Special Test Certific-		۲
IECEX		Miscellaneo	ius S	Special Test Certific- ate		۲
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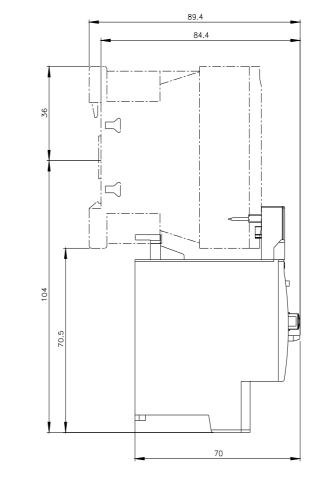
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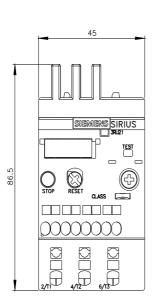
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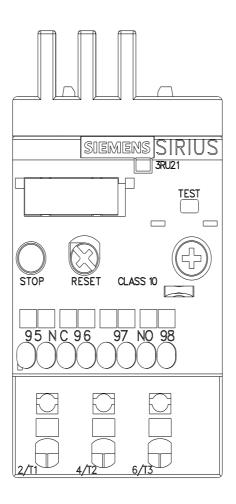
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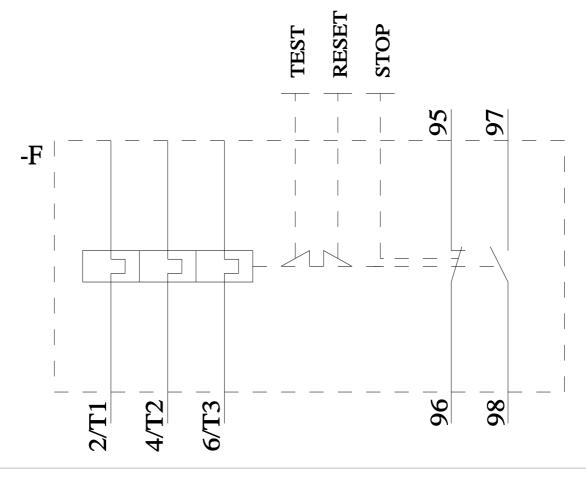
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RU2116-1HC0&lang=en Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-1HC0/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-1HC0&objecttype=14&gridview=view1









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