SIEMENS

Data sheet

3RU2116-0HB0



Overload relay 0.55...0.80 A Thermal For motor protection Size S00, Class 10 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS
product designation	thermal overload relay
product type designation	3RU2
General technical data	51102
size of overload relay	\$00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot	4.8 W
operating state	
• 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 ∨
 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
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	0.55 0.8 A
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	0.8 A
operational current at AC-3e at 400 V rated value	0.8 A

operating power	
• at AC-3	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 kW
● at AC-3e	
— at 400 V rated value	0.18 kW
— at 500 V rated value	0.25 kW
— at 690 V rated value	0.37 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	1 A
• 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
• 4(220)	
contact rating of auxiliary contacts according to UI	B600 / B300
contact rating of auxiliary contacts according to UL Protective and monitoring functions	B600 / R300
Protective and monitoring functions	B600 / R300 CLASS 10
Protective and monitoring functions trip class	
Protective and monitoring functions trip class design of the overload release	CLASS 10
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	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 • 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
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	CLASS 10 thermal 0.8 A 0.8 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	CLASS 10 thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any
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 	CLASS 10 thermal 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting
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	CLASS 10 thermal 0.8 A 0.8 A 0.8 A fuse gG: 6 A, quick: 10 A any Contactor mounting 76 mm
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	ssing	2x (0.5 1.5 mm²), 2x (0.			
	ssing				
liary contacts	 finely stranded with core end processing for AWG cables for auxiliary contacts 		2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)		
for AWG cables for auxiliary contacts tightening torque		2x (20 16), 2x (18 14)			
crew-type termina	als	0.8 1.2 N·m			
th screw-type terr		0.8 1.2 N·m			
design of screwdriver shaft		Diameter 5 6 mm			
size of the screwdriver tip					
onnection screv	v				
onneedion serev	•	M3			
 for main contacts of the auxiliary and control contacts					
Tor contacts		1015			
mand rate accor	ding to SN	50 FIT			
20		0.000 -			
TTF with high demand rate C 61508		2 280 a			
 for proof test interval or service life according to IEC 61508 		20 a			
		IP20			
t according to IE	EC 60529	finger-safe, for vertical cor	tact from the front		
tatus		Slide switch			
EG-Konf.)	Ŵ	LHL	
CE EG-Konf.			Ŵ	thl	
EG-Konf.		Test Certificates	Ŵ	Marine / Shipping	
	Miscellaneo			LHL Marine / Shipping	
	Miscellaneo	us <u>Type Test Certific</u>		LHL Marine / Shipping	
	Miscellaneo Liss	us <u>Type Test Certific</u>		Effic Marine / Shipping	
ons	Lloyds Register	us <u>Type Test Certific</u>		EHL Marine / Shipping	
ons	Lloyds Register us	nus <u>Type Test Certific</u> ates/Test Report		Effic Marine / Shipping Cook ABS	
ons	Lloyds Register uts Railway Special Test Co	nus <u>Type Test Certific</u> ates/Test Report	ate	LHL Marine / Shipping Corrections Abs	
ons	Lloyds Register UKS Railway Special Test Co	nus <u>Type Test Certific</u> ates/Test Report	ate	LHL Marine / Shipping	
ons	Railway Special Test Co ate	nus <u>Type Test Certific</u> ates/Test Report	ate	LHL Marine / Shipping Sas	
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ti r	nand rate accor service life accor ont according to le	nand rate according to SN service life according to IEC ont according to IEC 60529 according to IEC 60529	M3 M3 M3 M3 Service life according to SN Service life according to IEC M3 50 FIT 2 280 a 20 a IP20 finger-safe, for vertical continued Finder State Service life according to IEC 60529 Finder State Service life according to IEC 60529	M3 rol contacts M3 mand rate according to SN 50 FIT 2 280 a 2 service life according to IEC 20 a ont according to IEC 60529 IP20 finger-safe, for vertical contact from the front atus Slide switch	

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0HB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0HB0

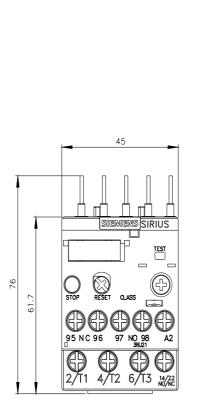
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0HB0&lang=en

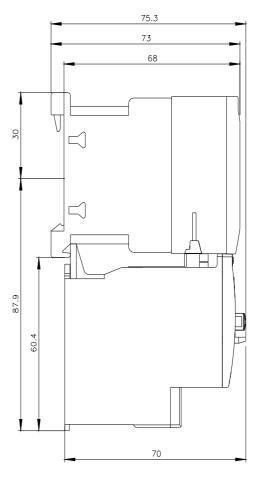
Characteristic: Tripping characteristics, I²t, Let-through current

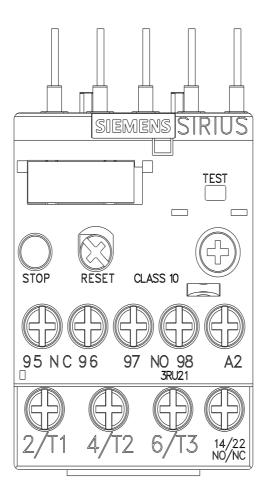
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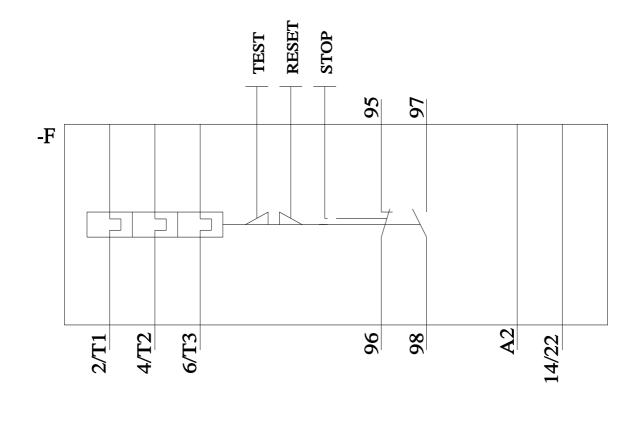
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0HB0&objecttype=14&gridview=view1









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