SIEMENS

Data sheet 3RU2116-0BB1



Overload relay 0.14...0.20 A Thermal For motor protection Size S00, Class 10 Stand-alone installation Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

SIRIUS
thermal overload relay
3RU2
S00
S00
4.8 W
1.6 W
690 V
6 kV
440 V
440 V
440 V
440 V
8g / 11 ms
Ex II (2) GD
DMT 98 ATEX G 001
F
01.10.2009 00:00:00
2 000 m
-40 +70 °C
-55 +80 °C
-55 +80 °C
-40 +60 °C
10 95 %
3
0.14 0.2 A
690 V
690 V

operating frequency rated value	50 60 Hz
operational current rated value	0.2 A
operating power at AC-3	0.271
• at 400 V rated value	0.06 kW
• at 500 V rated value	0.09 kW
at 690 V rated value at 690 V rated value	0.09 kW
Auxiliary circuit	0.03 KVV
	into queto d
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	0.4
• 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
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
Protective and monitoring functions	
trip class	CLASS 10
<u> </u>	
design of the overload release	thermal
<u> </u>	thermal
design of the overload release	thermal
design of the overload release UL/CSA ratings	thermal 0.2 A
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor	
design of the overload release UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	0.2 A
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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	0.2 A
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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	0.2 A 0.2 A fuse gG: 6 A, quick: 10 A
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 for auxiliary contacts 	
— solid or stranded	2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
, ,	
at AWG cables for auxiliary contacts	2x (20 16), 2x (18 14)
 tightening torque for main contacts with screw-type terminals 	0.8 1.2 N·m
 tightening torque for auxiliary contacts with screw- type terminals 	0.8 1.2 N·m
design of screwdriver shaft	Diameter 5 6 mm
size of the screwdriver tip	Pozidriv PZ 2
design of the thread of the connection screw	
 for main contacts 	M3
 of the auxiliary and control contacts 	M3
Safety related data	
failure rate [FIT] with low demand rate acc. to SN 31920	50 FIT
MTTF with high demand rate	2 280 y
T1 value for proof test interval or service life acc. to IEC 61508	20 y
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
Display	
display version for switching status	Slide switch
Certificates/ approvals	

General Product Approval

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping

Miscellaneous



Type Test
Certificates/Test
Report

Special Test Certificate





Marine / Shipping

LR:S









Confirmation

other

Railway

Vibration and Shock

Further information

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=3RU2116-0BB1

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU2116-0BB1

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

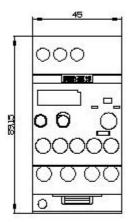
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0BB1

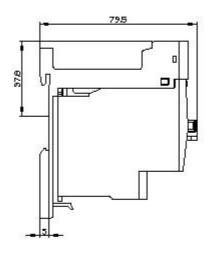
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU2116-0BB1&lang=en

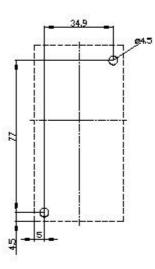
Characteristic: Tripping characteristics, I2t, Let-through current

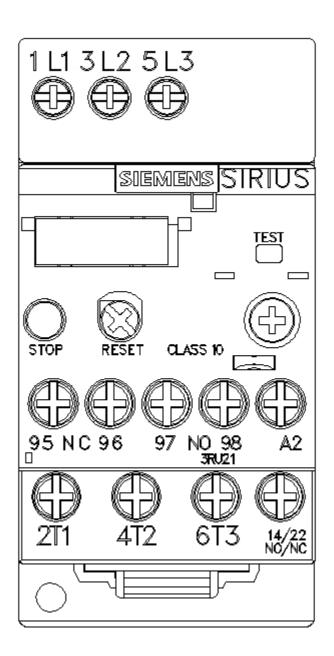
https://support.industry.siemens.com/cs/ww/en/ps/3RU2116-0BB1/char

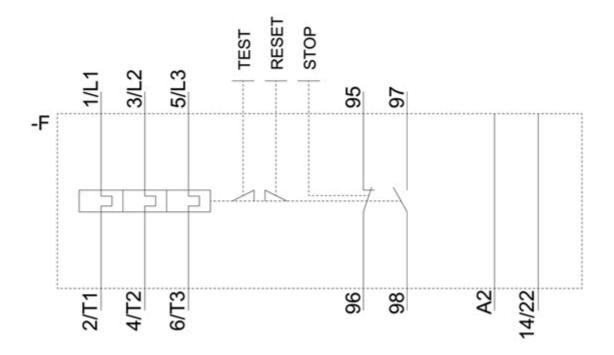
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU2116-0BB1&objecttype=14&gridview=view1











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