

Overload relay 1.4...2 A For motor protection Size S00, Class 10
 Stand-alone installation Main circuit: spring-type terminal Auxiliary
 circuit: spring-type terminal Manual-Automatic-Reset !!! Phased-out
 product !!! Successor is SIRIUS 3RU2 Preferred successor type is
 >>3RU2116-1BC1<<



Figure similar

Product brand name	SIRIUS
Product designation	thermal overload relay
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
• at AC in hot operating state 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
Protection class IP	
• on the front	IP20
Shock resistance	8g / 10 ms
Type of protection	DMT 98 ATEX G 001
Reference code acc. to DIN EN 81346-2	F

Ambient conditions

Installation altitude at height above sea level	
<ul style="list-style-type: none"> • maximum 	2 000 m
Ambient temperature	
<ul style="list-style-type: none"> • during operation 	-20 ... +70 °C
<ul style="list-style-type: none"> • during storage 	-55 ... +80 °C
<ul style="list-style-type: none"> • during transport 	-55 ... +80 °C
Relative humidity during operation	100 %

Main circuit

Number of poles for main current circuit	3
Adjustable pick-up value current of the current-dependent overload release	1.4 ... 2 A
Operating voltage	
<ul style="list-style-type: none"> • at AC-3 rated value maximum 	690 V

Auxiliary circuit

Number of NC contacts for auxiliary contacts	1
Number of NO contacts for auxiliary contacts	1
Number of CO contacts	
<ul style="list-style-type: none"> • for auxiliary contacts 	0
Operating current of auxiliary contacts at AC-15	
<ul style="list-style-type: none"> • at 24 V 	3 A
<ul style="list-style-type: none"> • at 110 V 	3 A
<ul style="list-style-type: none"> • at 120 V 	3 A
<ul style="list-style-type: none"> • at 125 V 	3 A
<ul style="list-style-type: none"> • at 230 V 	2 A
<ul style="list-style-type: none"> • at 400 V 	1 A
Operating current of auxiliary contacts at DC-13	
<ul style="list-style-type: none"> • at 24 V 	1 A
<ul style="list-style-type: none"> • at 110 V 	0.22 A
<ul style="list-style-type: none"> • at 125 V 	0.22 A
<ul style="list-style-type: none"> • at 220 V 	0.11 A

Protective and monitoring functions

Trip class	CLASS 10
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Short-circuit protection

Design of the fuse link	
<ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch required 	fuse gL/gG: 6 A, quick: 10 A

Installation/ mounting/ dimensions

Mounting position	with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
Mounting type	stand-alone installation
Height	92 mm

Width	45 mm
Depth	78 mm
Required spacing	
<ul style="list-style-type: none"> • with side-by-side mounting <ul style="list-style-type: none"> — forwards 0 mm — Backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 0 mm • for grounded parts <ul style="list-style-type: none"> — forwards 0 mm — Backwards 0 mm — upwards 0 mm — at the side 6 mm — downwards 0 mm • for live parts <ul style="list-style-type: none"> — forwards 0 mm — Backwards 0 mm — upwards 0 mm — downwards 0 mm — at the side 6 mm 	

Connections/ Terminals	
Product function	
<ul style="list-style-type: none"> • removable terminal for auxiliary and control circuit 	No
Type of electrical connection	
<ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit 	Cage Clamp terminals Cage Clamp terminals
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> — solid 2x (0.25 ... 2.5 mm²) — finely stranded with core end processing 2x (0.25 ... 1.5 mm²) — finely stranded without core end processing 2x (0.25 ... 2.5 mm²) • at AWG conductors for main contacts 2x (24 ... 14) 	
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid 2x (0.5 ... 2.5 mm²) — finely stranded with core end processing 2x (0.5 ... 1.5 mm²) — finely stranded without core end processing 2x (0.5 ... 1.5 mm²) • at AWG conductors for auxiliary contacts 2x (20 ... 14) 	

Certificates/ approvals

General Product Approval



CCC



CSA



UL



ATEX



IECEX

Declaration of Conformity



EG-Konf.

[Miscellaneous](#)

Test Certificates

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

Marine / Shipping



ABS



BUREAU VERITAS

Marine / Shipping



LRS



PRS



RINA



RMRS



DNV-GL

other

[Miscellaneous](#)

other

[Confirmation](#)

Railway

[Special Test Certificate](#)

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=3RU1116-1BC1>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1116-1BC1>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1116-1BC1>

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

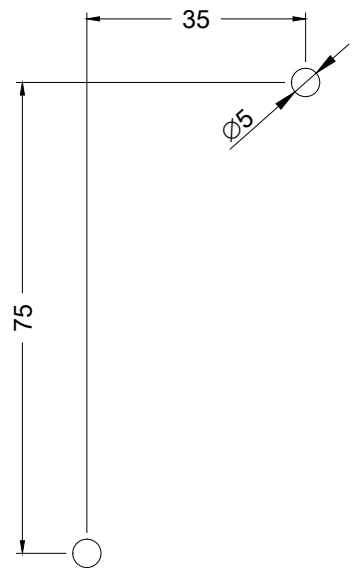
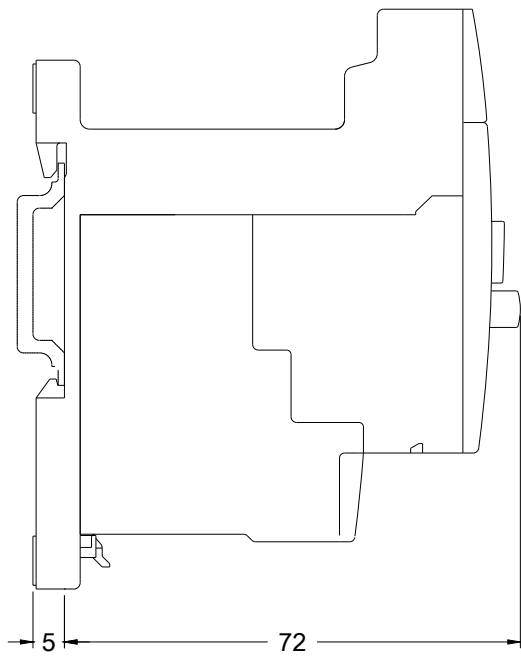
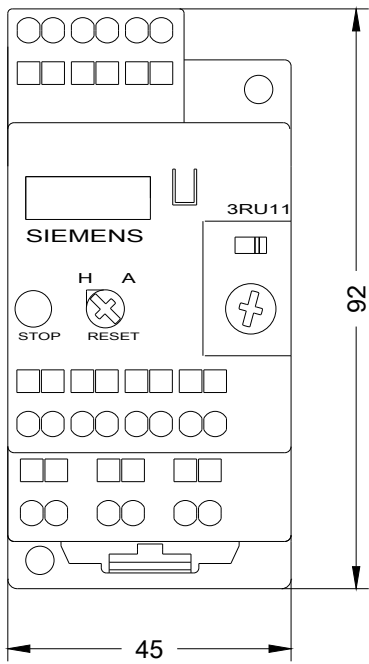
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1116-1BC1&lang=en

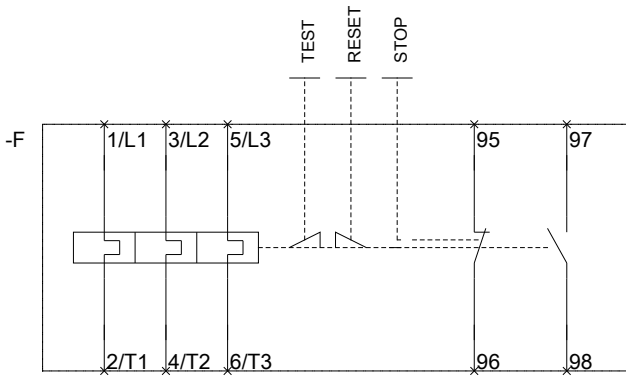
Characteristic: Tripping characteristics, I^t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1116-1BC1/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU1116-1BC1&objecttype=14&gridview=view1>





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