

Overload relay 40...50 A For motor protection Size S2, Class 10  
 Contactor mounting Main circuit: Screw terminal Auxiliary circuit:  
 Screw terminal Manual-Automatic-Reset !!! Phased-out product !!!  
 Successor is SIRIUS 3RU2 Preferred successor type is >>3RU2136-  
 4HB0<<



Product brand name	SIRIUS
Product designation	thermal overload relay

General technical data	
Size of overload relay	S2
Size of contactor can be combined company-specific	S2
Power loss [W] total typical	9 W
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
Protection class IP	IP20
<ul style="list-style-type: none"> <li>on the front</li> </ul>	IP20
Shock resistance	8g / 10 ms
Type of protection	DMT 98 ATEX G 001
Protection against electrical shock	finger-safe
Reference code acc. to DIN EN 81346-2	F

Ambient conditions	
Installation altitude at height above sea level	2 000 m
<ul style="list-style-type: none"> <li>maximum</li> </ul>	2 000 m
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	40 ... 50 A
Operating voltage	690 V
<ul style="list-style-type: none"> <li>at AC-3 rated value maximum</li> </ul>	

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

Protective and monitoring functions	
Trip class	CLASS 10

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

Installation/ mounting/ dimensions	
Mounting position	with vertical mounting surface +/-135° rotatable, with vertical mounting surface +/- 45° tiltable to the front and back
Mounting type	Contacteur mounting
Height	105 mm
Width	55 mm
Depth	118 mm
Required spacing	0 mm 0 mm 0 mm
<ul style="list-style-type: none"> <li>with side-by-side mounting</li> </ul>	
<ul style="list-style-type: none"> <li>— forwards</li> </ul>	
<ul style="list-style-type: none"> <li>— Backwards</li> </ul>	
<ul style="list-style-type: none"> <li>— upwards</li> </ul>	0 mm

— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— at the side	6 mm
— downwards	0 mm
• for live parts	
— forwards	0 mm
— Backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	6 mm

## Connections/Terminals

<b>Product function</b>	
• removable terminal for auxiliary and control circuit	No
<b>Type of electrical connection</b>	
• for main current circuit	screw-type terminals
• for auxiliary and control current circuit	screw-type terminals
<b>Type of connectable conductor cross-sections</b>	
• for main contacts	
— solid	2x (0.75 ... 16 mm <sup>2</sup> )
— stranded	2x (0.75 ... 25 mm <sup>2</sup> ), 0.75 ... 35 mm <sup>2</sup>
— finely stranded with core end processing	2x (0.75 ... 16 mm <sup>2</sup> ), 0.75 ... 25 mm <sup>2</sup>
• at AWG conductors for main contacts	2x (18 ... 3), 1x (18 ... 1)
<b>Type of connectable conductor cross-sections</b>	
• for auxiliary contacts	
— solid	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
— finely stranded with core end processing	2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• at AWG conductors for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14)

## Certificates/approvals

General Product Approval	For use in hazardous locations
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Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



Marine / Shipping	other
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[Miscellaneous](#)

[Confirmation](#)

Further information

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RU1136-4HB0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU1136-4HB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1136-4HB0>

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

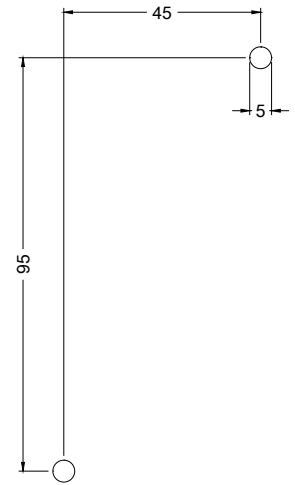
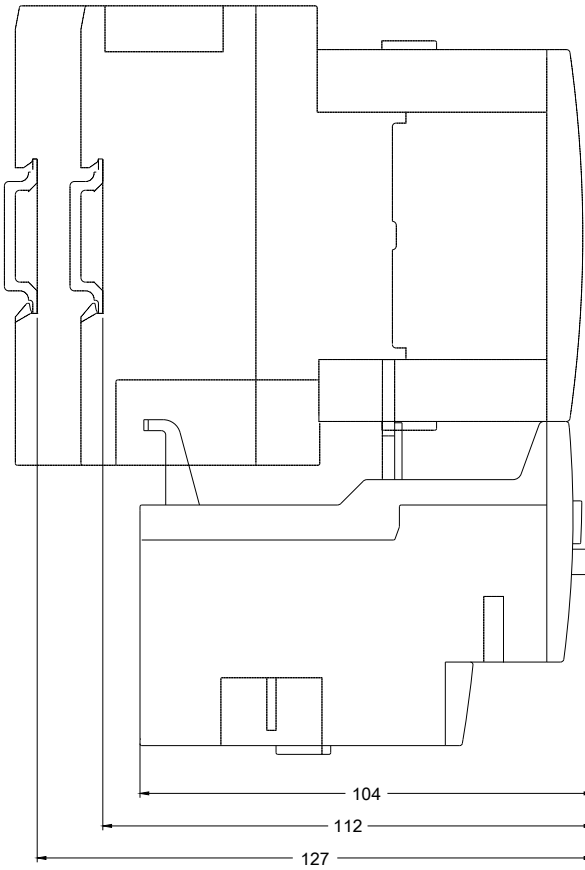
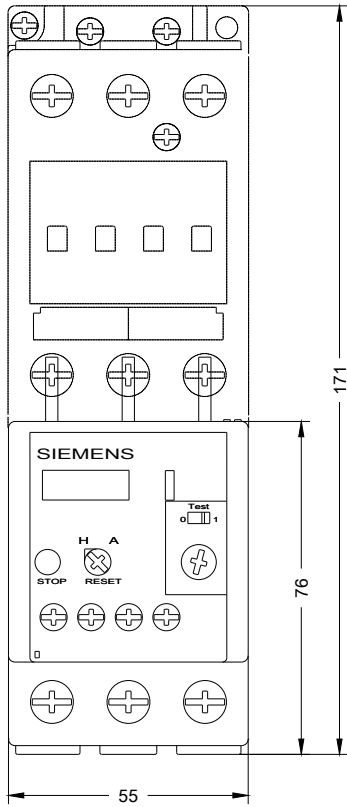
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RU1136-4HB0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU1136-4HB0&lang=en)

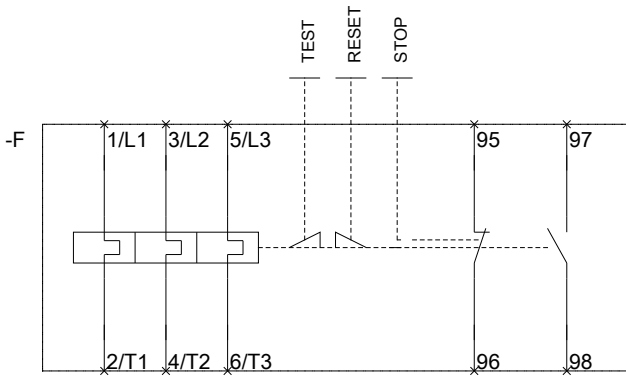
**Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RU1136-4HB0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RU1136-4HB0&objecttype=14&gridview=view1>





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