

OVERLOAD RELAY, 45...63 A, 1NO+1NC, SIZE S3, CLASS 10,
FOR CONTACTOR MOUNTING

product brand name	SIRIUS
Product designation	thermal overload relay

General technical data:

Size of overload relay	S3
Size of contactor can be combined company-specific	S3
Power loss [W] total typical	16.5 W
Insulation voltage with degree of pollution 3 rated value	1 000 V
Surge voltage resistance rated value	8 kV
Protection class IP <ul style="list-style-type: none"> • on the front 	IP20
Shock resistance	8g / 10 ms
Type of protection	DMT 98 ATEX G 001
Protection against electrical shock	finger-safe
Equipment marking acc. to DIN EN 81346-2	F

Ambient conditions:

Installation altitude at height above sea level maximum	2 000 m
Ambient temperature <ul style="list-style-type: none"> • during operation • during storage • during transport 	-20 ... +70 °C -55 ... +80 °C -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	45 ... 63 A
Operating voltage <ul style="list-style-type: none"> • at AC-3 rated value maximum 	1 000 V

Auxiliary circuit:

Number of NC contacts <ul style="list-style-type: none"> • for auxiliary contacts 	1
Number of NO contacts <ul style="list-style-type: none"> • for auxiliary contacts 	1
Number of CO contacts	

• for auxiliary contacts	0
Operating 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
Operating current of auxiliary contacts at DC-13	
• at 24 V	1 A
• at 110 V	0.22 A
• at 125 V	0.22 A
• at 220 V	0.11 A

Protective and monitoring functions:	
Trip class	Class 10

Short-circuit protection	
Design of the fuse link	
• 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	direct mounting
Height	120 mm
Width	70 mm
Depth	140 mm
Required spacing	
• with side-by-side mounting	
— forwards	0 mm
— Backwards	0 mm
— upwards	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:

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 	<p>screw-type terminals</p> <p>screw-type terminals</p>
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> solid stranded finely stranded with core end processing at AWG conductors for main contacts 	<p>2x (2.5 ... 16 mm²)</p> <p>2x (10 ... 50 mm²), 10 ... 70 mm²</p> <p>2x (2.5 ... 35 mm²), 2.5 ... 50 mm²</p> <p>2x (10 ... 1/0), 1x (10 ... 2/0)</p>
Type of connectable conductor cross-sections	
<ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> solid finely stranded with core end processing at AWG conductors for auxiliary contacts 	<p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)</p> <p>2x (20 ... 16), 2x (18 ... 14)</p>

Certificates/approvals

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

[spezielle Prüfbescheinigungen](#)



Shipping Approval	other
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[Umweltbestätigung](#)

[sonstig](#)

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=3RU11464JB0>

Cax online generator

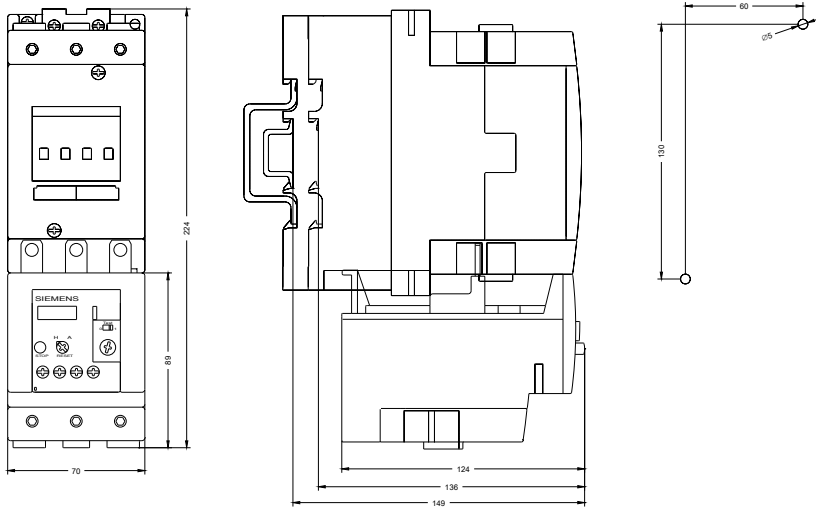
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RU11464JB0>

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

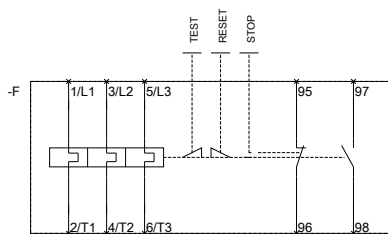
<https://support.industry.siemens.com/cs/ww/en/ps/3RU11464JB0>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RU11464JB0&lang=en



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last modified:

05.04.2016