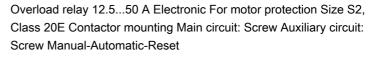
# **SIEMENS**

Data sheet 3RB3036-2UB0





product brand name	SIRIUS	
Product designation	solid-state overload relay	
Product type designation	3RB3	

Size of overload relay	S2
Size of contactor can be combined company-specific	S2
Power loss [W] for rated value of the current	
• at AC in hot operating state	1.8 W
• at AC in hot operating state per pole	0.6 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 safe isolation	
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	600 V

<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	690 V		
protection class IP on the front	IP20		
Protection class IP of the terminal	IP00		
Shock resistance	15g / 11 ms		
• acc. to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 8g / 11 ms		
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s <sup>2</sup> ; 10 cycles		
thermal current	50 A		
Recovery time			
<ul> <li>after overload trip with automatic reset typical</li> </ul>	3 min		
<ul> <li>after overload trip with remote-reset</li> </ul>	0 min		
<ul> <li>after overload trip with manual reset</li> </ul>	0 min		
Type of protection according to ATEX directive 2014/34/EU	Ex II (2) G [Ex e] [Ex d] [Ex px]; Ex II (2) D [Ex t] [Ex p]		
Certificate of suitability according to ATEX directive 2014/34/EU	PTB 09 ATEX 3001		
Reference code acc. to DIN EN 81346-2	F		
Ambient conditions			
Installation altitude at height above sea level			
• maximum	2 000 m		
Ambient temperature			
during operation	-25 +60 °C		
during storage	-40 +80 °C		
during transport	-40 +80 °C		
Temperature compensation	-25 +60 °C		
Relative humidity during operation	10 95 %		
Main circuit			
Number of poles for main current circuit	3		
adjustable pick-up value current of the current-	12.5 50 A		
dependent overload release			
Operating voltage			
• rated value	690 V		
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V		
Operating frequency rated value	50 60 Hz		
Operating current rated value	50 A		
Operating power			
• for three-phase motors at 400 V at 50 Hz	7.5 22 kW		
	11 30 kW		
• for AC motors at 500 V at 50 Hz	11 00 KH		
<ul> <li>for AC motors at 500 V at 50 Hz</li> <li>for AC motors at 690 V at 50 Hz</li> </ul>	11 45 kW		

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	To mossage appea		
• for auxiliary contacts	0		
·	4 A		
<ul> <li>operating current of auxiliary contacts at AC-15 at 24 V</li> </ul>			
<ul> <li>Operating current of auxiliary contacts at AC-15 at 110 V</li> </ul>	4 A		
<ul> <li>Operating current of auxiliary contacts at AC-15 at 120 V</li> </ul>	4 A		
<ul> <li>Operating current of auxiliary contacts at AC-15 at 125 V</li> </ul>	4 A		
<ul> <li>Operating current of auxiliary contacts at AC-15 at 230 V</li> </ul>	3 A		
<ul> <li>operating current of auxiliary contacts at DC-13 at 24 V</li> </ul>	2 A		
<ul> <li>Operating current of auxiliary contacts at DC-13 at 60 V</li> </ul>	0.55 A		
<ul> <li>Operating current of auxiliary contacts at DC-13 at 110 V</li> </ul>	0.3 A		
<ul> <li>operating current of auxiliary contacts at DC-13 at 125 V</li> </ul>	0.3 A		
<ul> <li>Operating current of auxiliary contacts at DC-13 at 220 V</li> </ul>	0.11 A		
Protective and monitoring functions			
Trip class	CLASS 20E		
Design of the overload release	electronic		
UL/CSA ratings			
Full-load current (FLA) for three-phase AC motor			
● at 480 V rated value	50 A		
• at 600 V rated value	50 A		
Contact rating of auxiliary contacts according to UL	B600 / R300		
Short-circuit protection			
Design of the fuse link			
• for short-circuit protection of the main circuit			
— with type of coordination 1 required	gG: 250 A		
— with type of assignment 2 required	gG: 200 A		
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gG: 6 A		
Installation/ mounting/ dimensions			

<ul><li>mounting position</li></ul>	any		
Mounting type	Contactor mounting		
Height	99 mm		
Width	55 mm		
Depth	104 mm		
Connections/ Terminals			
Product function			
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	Yes		
<ul> <li>Type of electrical connection for main current circuit</li> </ul>	screw-type terminals		
<ul> <li>Type of electrical connection for auxiliary and control current circuit</li> </ul>	screw-type terminals		
Arrangement of electrical connectors for main current circuit	Top and bottom		
Type of connectable conductor cross-sections			
• for main contacts			
— solid	1x (1 50 mm²), 2x (1 35 mm²)		
— stranded	2x (10 35 mm²), 1x 50 mm²		
<ul><li>— single or multi-stranded</li></ul>	1x (1 50 mm²), 2x (1 35 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (1 35 mm²), 2x (1 25 mm²)		
<ul> <li>at AWG conductors for main contacts</li> </ul>	2x (18 2), 1x (18 1)		
Type of connectable conductor cross-sections			
for auxiliary contacts			
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
<ul> <li>single or multi-stranded</li> </ul>	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	1x (20 14), 2x (20 14)		
Tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	3 4.5 N·m		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m		
Design of screwdriver shaft	Diameter 5 to 6 mm		
Size of the screwdriver tip	Pozidriv PZ 2		
Design of the thread of the connection screw			
• for main contacts	M6		
of the auxiliary and control contacts	M3		

Commun		

Type of voltage supply via input/output link master

No

# Electromagnetic compatibility

## Conducted interference

• due to burst acc. to IEC 61000-4-4

2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3

• due to conductor-earth surge acc. to IEC 61000-4-5

• due to conductor-conductor surge acc. to IEC 61000-4-5

• due to high-frequency radiation acc. to IEC 61000-4-6

Field-bound parasitic coupling acc. to IEC 61000-4-3

Electrostatic discharge acc. to IEC 61000-4-2

2 kV (line to earth) corresponds to degree of severity 3

1 kV (line to line) corresponds to degree of severity 3

10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz

10 V/m

6 kV contact discharge / 8 kV air discharge

## Display

# Display version

• for switching status

Slide switch

# Certificates/ approvals

## **General Product Approval**

**EMC** 

For use in hazardous locations













#### **Declaration of Conformity**

#### **Test Certificates**

# Marine / Shipping



Miscellaneous

Type Test Certificates/Test Report

Special Test Certificate





## Marine / Shipping

#### other









Confirmation

# 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=3RB3036-2UB0

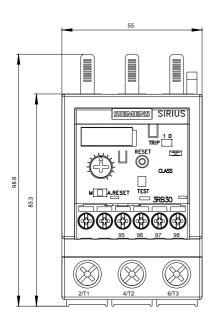
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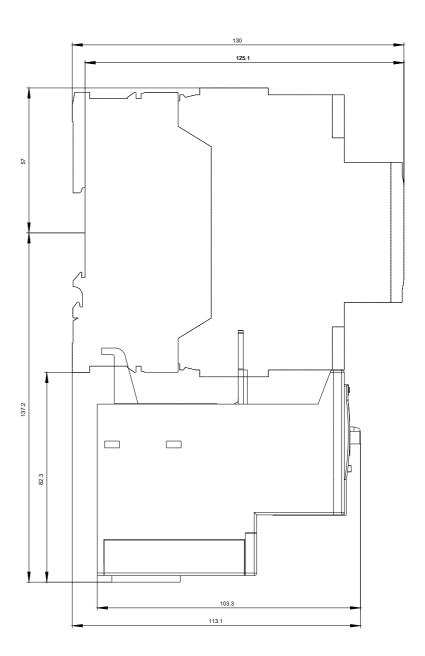
 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RB3036-2UB0}\\$ 

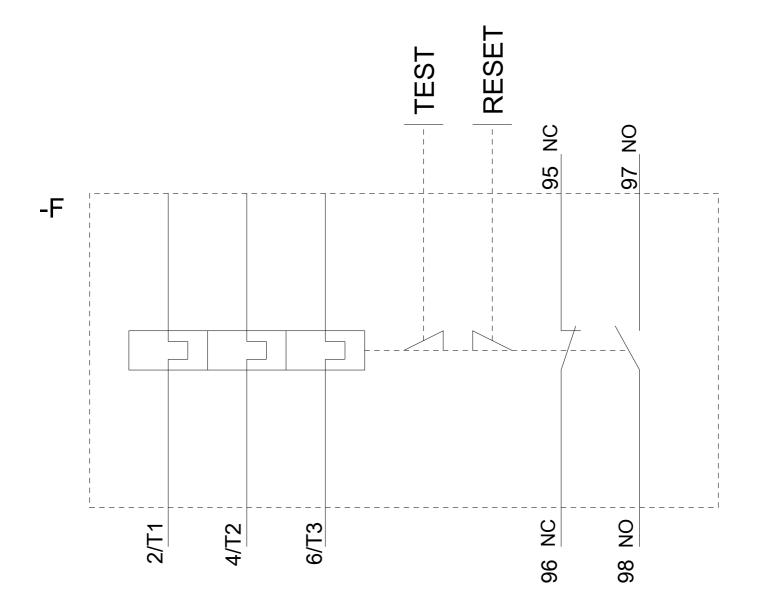
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2UB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3036-2UB0&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3036-2UB0/char







last modified: 08/13/2020