SIEMENS

Data sheet 3RB3046-2UB0



Overload relay 12.5...50 A Electronic For motor protection Size S3, Class 20E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB3
General technical data	
size of overload relay	S3
size of contactor can be combined company-specific	S3
power loss [W] for rated value of the current at AC in hot operating state	0.9 W
• per pole	0.3 W
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
maximum permissible voltage for safe isolation in networks with grounded star point	
 between auxiliary and auxiliary circuit 	300 V
 between auxiliary and auxiliary circuit 	300 V
 between main and auxiliary circuit 	600 V
 between main and auxiliary circuit 	690 V
shock resistance	8g / 11 ms
 according 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 ² ; 10 cycles
thermal current	50 A
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 according to IEC 81346-2	F
Substance Prohibitance (Date)	03/01/2017
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 current response value current of the current-dependent overload release	12.5 50 A
operating voltage	
rated value	1 000 V
 at AC-3e rated value maximum 	1 000 V

operational current rate value operating power - lor 3-phase motors at 400 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor AC motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 V at 50 Hz - lor Ac motors at 500 Hz - lor Ac motors at 500 Hz - l	operating frequency rated value	50 60 Hz
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• for 3-phase motions at 400 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz • for AC motions at 500 V at 50 Hz Auxillary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts • note number of NC contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • note number of CO contacts for auxiliary contacts • at 24 V • at 110 V • at 120 V • at 125 V • at 150 V • at 125 V • at 24 V • at 150 V • at 125 V • at 24 V • at 160 V • at 126 V • at 170 V • a	·	50 A
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and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • solid or stranded • finely stranded with core end processing screw-type terminals Top and bottom 2x (2.5 16 mm²) 2x (2.5 16 mm²) 1x (2,5 70 mm²), 2x (2,5 50 mm²) 1x (2,5 50 mm²), 2x (2,5 35 mm²)		
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid stranded stranded solid or stranded finely stranded with core end processing Screw-type terminals Top and bottom Top and bottom 2x (2.5 16 mm²) 2x (2.5 16 mm²) 1x (2,5 70 mm²), 2x (2,5 50 mm²) 1x (2,5 50 mm²), 2x (2,5 35 mm²)		Yes
 for main current circuit for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts solid stranded stranded solid or stranded finely stranded with core end processing Screw-type terminals Top and bottom Top and bottom 2x (2.5 16 mm²) 2x (2.5 16 mm²) 1x (2,5 70 mm²), 2x (2,5 50 mm²) 1x (2,5 50 mm²), 2x (2,5 35 mm²)	type of electrical connection	
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • solid or stranded • finely stranded with core end processing Top and bottom 2x (2.5 16 mm²) 2x (2.5 16 mm²) 2x 16 mm² 1x (2,5 70 mm²), 2x (2,5 50 mm²) 1x (2,5 50 mm²), 2x (2,5 35 mm²)		screw-type terminals
type of connectable conductor cross-sections for main contacts • solid • stranded • solid or stranded • solid or stranded • solid or stranded • tinely stranded with core end processing • type of connectable conductor cross-sections for main contacts 2x (2.5 16 mm²) 2x 16 mm² 1x (2,5 70 mm²), 2x (2,5 50 mm²) 1x (2,5 50 mm²), 2x (2,5 35 mm²)	 for auxiliary and control circuit 	screw-type terminals
ontacts	•	Top and bottom
 stranded solid or stranded 1x (2,5 70 mm²), 2x (2,5 50 mm²) finely stranded with core end processing 1x (2,5 50 mm²), 2x (2,5 35 mm²) 	31	
 solid or stranded 1x (2,5 70 mm²), 2x (2,5 50 mm²) finely stranded with core end processing 1x (2,5 50 mm²), 2x (2,5 35 mm²) 	• solid	2x (2.5 16 mm²)
• finely stranded with core end processing 1x (2,5 50 mm²), 2x (2,5 35 mm²)	• stranded	2x 16 mm²
	 solid or stranded 	1x (2,5 70 mm²), 2x (2,5 50 mm²)
type of connectable conductor cross-sections	 finely stranded with core end processing 	1x (2,5 50 mm²), 2x (2,5 35 mm²)
for auxiliary contacts	for auxiliary contacts	

— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
 solid or stranded 	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
 finely stranded with core end processing 	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
 at AWG cables for auxiliary contacts 	2x (20 14)		
tightening torque			
 for main contacts with screw-type terminals 	4.5 6 N·m		
 for auxiliary contacts with screw-type terminals 	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		
Safety related data			
protection class IP on the front according to IEC 60529	IP20		
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front		
Communication/ Protocol			
type of voltage supply via input/output link master	No		
Electromagnetic compatibility			
conducted interference			
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3		
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3		
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3		
 due to high-frequency radiation according to IEC 61000-4-6 	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz		
field-based interference according to IEC 61000-4-3	10 V/m		
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge		
Display			
display version for switching status	Slide switch		
Certificates/ approvals			
General Product Approval		EMC	





Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping

other







Confirmation

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 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=3RB3046-2UB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3046-2UB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3046-2UB0

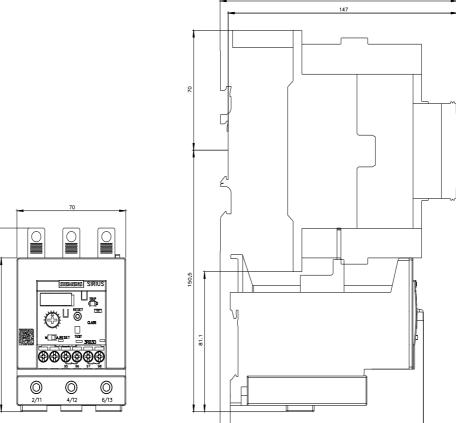
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3046-2UB0&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

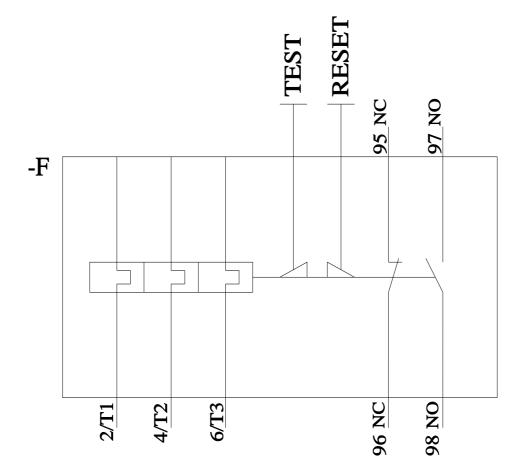
https://support.industry.siemens.com/cs/ww/en/ps/3RB3046-2UB0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3046-2UB0&objecttype=14&gridview=view1



130.5



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