SIEMENS

Data sheet 3RB3026-1QB0

Overload relay 6...25 A Electronic For motor protection Size S0, Class 10E 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	S0
Size of contactor can be combined company-specific	S0
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between main and auxiliary circuit 	600 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
Protection class IP	
• on the front	IP20

Shock resistance	of the terminal	IP20
Vibration resistance 1-6 Hz, 15 mm; 6-500 Hz, 20 m/s², 10 cycles Thermal current 2-8 A Recovery time • after overload trip with automatic reset typical • after overload trip with manual reset 0 min Type of protection according to ATEX directive 2014/34/EU 2014/34/EU 2014/34/EU Protection against electrical shock 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 • during storage • during ransport Temperature compensation Relative humidity during operation 10 95 % Main circuit Main circuit AGA; stade value maximum Operating frequency rated value Operating rowers • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz Design of the auxiliary switch Number of NC contacts for auxiliary switch Integrated Number of NC contacts for auxiliary switch Integrated Number of NC contacts for auxiliary switch Integrated Integrated Integrated Integ	Shock resistance	15g / 11 ms
Thermal current Recovery time • after overload trip with automatic reset typical • after overload trip with remote-reset • after overload trip with remote-reset • after overload trip with remote-reset • after overload trip with manual reset O min Type of protection according to ATEX directive 2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU Protection against electrical shock Reference code act. to DIN EN 81346-2 F Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during transport Temperature compensation 2-25 +60 °C 4-0 +80 °C Temperature compensation 2-25 +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-dependent overload release Operating voltage • (ated value • at AC-3 rated value at AC-3 rated value Operating frequency rated value Operating requency rated value Operating requency rated value • for AC motors at 500 V at 50 Hz • for AC motors at 600 V at 50 Hz • for AC motors at 600 V at 50 Hz • fo	• acc. to IEC 60068-2-27	
Recovery time after overload trip with automatic reset typical after overload trip with remote-reset of min Type of protection according to ATEX directive 2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU Protection against electrical shock Reference code acc. to DIN EN 81346-2 F Ambient conditions Installation altitude at height above sea level maximum Ambient temperature during operation during storage during storage during transport -40 +80 °C -40 +80 °C Relative humidity during operation 2-25 +60 °C Auding storage during transport -40 +80 °C Relative humidity during operation 2-25 +60 °C -40 +80 °C -4080 °C -40	Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
after overload trip with automatic reset typical after overload trip with remote-reset after overload trip with manual reset Uppe of protection according to ATEX directive 2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU Protection against electrical shock Reference code acc. to DIN EN 81346-2 F Ambient conditions Installation altitude at height above sea level amaximum Ambient temperature during operation during storage during transport -40 +80 °C Temperature compensation -25 +60 °C Relative humidity during operation -25 +60 °C Relative humidity during operation -25 +60 °C Main crouit Number of poles for main current circuit dependent overload release Operating requency rated value - at AC-3 rated value maximum Operating frequency rated value - for three-phase motors at 400 V at 50 Hz - for AC motors at 500 V at 50 Hz - for AC motors at 500 V at 50 Hz - Design of the auxiliary switch Number of NC contacts for auxiliary contacts I s min Installation Omin Ex II (2) G [Ex e] [Ex d] [Ex pt] Ex II (2) D [Ex t] [Ex pt] Omin Ex II (2) G [Ex e] [Ex d] [Ex pt] Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2) D [Ex t] [Ex pt] PTB 09 ATEX 3001 Ex II (2	Thermal current	25 A
after overload trip with remote-reset after overload trip with manual reset after overload trip with manual reset o min Type of protection according to ATEX directive 2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU Protection against electrical shock Reference code acc. to DIN EN 81346-2 F Ambient conditions Installation attifude at height above sea level maximum ambient temperature during operation during storage during storage during transport -40 +80 °C -4080 °C	Recovery time	
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Type of protection according to ATEX directive 2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU Protection against electrical shock finger-safe Reference code acc. to DIN EN 81346-2 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 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-dependent overload release Operating voltage • rated value 690 V Operating frequency rated value 50 60 Hz Operating power • for three-phase motors at 400 V at 50 Hz 4 15 kW • for AC motors at 690 V at 50 Hz 5 22 kW Auxiliary circuit Design of the auxiliary switch integrated Number of NC contacts for auxiliary contacts 1	 after overload trip with remote-reset 	0 min
2014/34/EU Certificate of suitability according to ATEX directive 2014/34/EU Protection against electrical shock finger-safe Reference code acc. to DIN EN 81346-2 F Ambient conditions Installation attitude 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-dependent overload release Operating voltage • rated value - 690 V Operating frequency rated value - 50 60 Hz Operating gower • for three-phase motors at 400 V at 50 Hz - 4 15 kW • for AC motors at 690 V at 50 Hz - 55 22 kW Auxiliary circuit Design of the auxiliary switch integrated Number of NC contacts for auxiliary contacts 1	 after overload trip with manual reset 	0 min
2014/34/EU Protection against electrical shock Reference code acc. to DIN EN 81346-2 F Ambient conditions Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during transport Temperature compensation Relative humidity during operation 10 95 % Main circuit Number of poles for main current circuit 3 Adjustable pick-up value current of the current-dependent overload release Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating power • for three-phase motors at 400 V at 50 Hz • for AC motors at 690 V at 50 Hz		Ex II (2) G [Ex e] [Ex d] [Ex px]; Ex II (2) D [Ex t] [Ex p]
Reference code acc. to DIN EN 81346-2 Ambient conditions Installation altitude at height above sea level • maximum 2 000 m Ambient temperature • during operation • during storage • during transport -40 +80 °C -40 +80 °C Temperature compensation -25 +60 °C Relative humidity during operation 10 95 % Main circuit Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating requency rated value • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 690 V at 50 Hz • for AC m	• •	PTB 09 ATEX 3001
Installation altitude at height above sea level • maximum Ambient temperature • during operation • during storage • during transport -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-dependent overload release Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating frequency rated value Operating rement rated value 50 60 Hz Operating power • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 690 V at 50 Hz	Protection against electrical shock	finger-safe
Installation altitude at height above sea level maximum 2 000 m Ambient temperature during operation during storage during transport -40 +80 °C -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 Adjustable pick-up value current of the current-dependent overload release Operating voltage rated value at AC-3 rated value maximum 690 V Operating frequency rated value Operating current rated value Operating current rated value 50 60 Hz Operating power for three-phase motors at 400 V at 50 Hz for AC motors at 500 V at 50 Hz for AC motors at 690 V at 50 Hz story Auxiliary circuit Design of the auxiliary switch integrated Number of NC contacts for auxiliary contacts 1	Reference code acc. to DIN EN 81346-2	F
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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-dependent overload release Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value 50 60 Hz Operating current rated value 25 A Operating power • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 690 V at 50 Hz Summer of NC contacts for auxiliary contacts 1	during storage	-40 +80 °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-dependent overload release Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value 50 60 Hz Operating current rated value 25 A Operating power • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 690 V at 50 Hz	during transport	-40 +80 °C
Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value 50 60 Hz Operating power • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 690 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts for auxiliary contacts 1	Temperature compensation	-25 +60 °C
Number of poles for main current circuit Adjustable pick-up value current of the current-dependent overload release Operating voltage • rated value • at AC-3 rated value maximum Operating frequency rated value Operating current rated value 50 60 Hz Operating current rated value 25 A Operating power • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 690 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts for auxiliary contacts 1	Relative humidity during operation	10 95 %
Adjustable pick-up value current of the current- dependent overload release Operating voltage • rated value • at AC-3 rated value maximum 690 V Operating frequency rated value 50 60 Hz Operating current rated value 25 A Operating power • for three-phase motors at 400 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 690 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts for auxiliary contacts 1	Main circuit	
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Operating current rated value Operating power of for three-phase motors at 400 V at 50 Hz of for AC motors at 500 V at 50 Hz of for AC motors at 690 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts for auxiliary contacts 25 A 3 11 kW 4 15 kW 5.5 22 kW	 at AC-3 rated value maximum 	
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for AC motors at 500 V at 50 Hz for AC motors at 690 V at 50 Hz for AC motors at 690 V at 50 Hz Auxiliary circuit Design of the auxiliary switch Number of NC contacts for auxiliary contacts 1	. •	
for AC motors at 690 V at 50 Hz Auxiliary circuit Design of the auxiliary switch integrated Number of NC contacts for auxiliary contacts 1	·	
Auxiliary circuit Design of the auxiliary switch Number of NC contacts for auxiliary contacts 1		
Design of the auxiliary switch integrated Number of NC contacts for auxiliary contacts 1	• for AC motors at 690 V at 50 Hz	5.5 22 kW
Number of NC contacts for auxiliary contacts 1	Auxiliary circuit	
	Design of the auxiliary switch	integrated
Note for contactor disconnection	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 The Souge Tripped
• for auxiliary contacts	0
Operating current of auxiliary contacts at AC-15	
• at 24 V	4 A
• at 110 V	4 A
• at 120 V	4 A
• at 125 V	4 A
• at 230 V	3 A
Operating current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 60 V	0.55 A
• at 110 V	0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A
Protective and monitoring functions	
Trip class	CLASS 10E
Design of the overload release	electronic
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
● at 480 V rated value	25 A
● at 600 V rated value	25 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: 125 A, RK5: 100 A
— with type of assignment 2 required	gG: 63 A, J: 100 A
• for short-circuit protection of the auxiliary switch	fuse gG: 6 A
required	
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	Contactor mounting
Height	87 mm
Width	45 mm
Depth	84 mm
Required spacing	
Required spacing ● with side-by-side mounting	

- Backwards

0 mm

0 mm
0 mm
0 mm
6 mm
0 mm
6 mm
6 mm
6 mm
6 mm
0 mm
6 mm
6 mm
6 mm

Connections/ Terminals	
Product function	
 removable terminal for auxiliary and control 	Yes
circuit	
Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Arrangement of electrical connectors for main current	Top and bottom
circuit	
Type of connectable conductor cross-sections	
• for main contacts	
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)
— stranded	2x 10 mm²
— single or multi-stranded	1x (1 10 mm²), 2x (1 10 mm²)
 finely stranded with core end processing 	1x (1 6 mm²), 2 x (1 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	1x (16 8), 2x (16 8)
Type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
 single or multi-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 conductors for auxiliary contacts 	1x (20 14), 2x (20 14)
Tightening torque	
• for main contacts with screw-type terminals	2 2.5 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	M4
• of the auxiliary and control contacts	M3
Communication/ Protocol	
Type of voltage supply via input/output link master	No
Electromagnetic compatibility	
Conducted interference	

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 	2 kV (line to earth) corresponds to degree of severity 3
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3
 due to high-frequency radiation acc. to IEC 61000-4-6 	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz
Field-bound parasitic coupling acc. to IEC 61000-4-3	10 V/m
Electrostatic discharge acc. 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

For use in hazardous locations













Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report

Special Test Certificate





LRS

Marine / Shipping

other









Confirmation

Further information

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

www.siemens.com/sirius/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RB3026-1QB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-1QB0

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

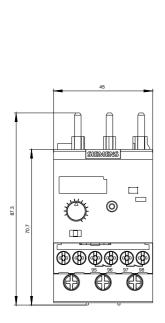
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1QB0

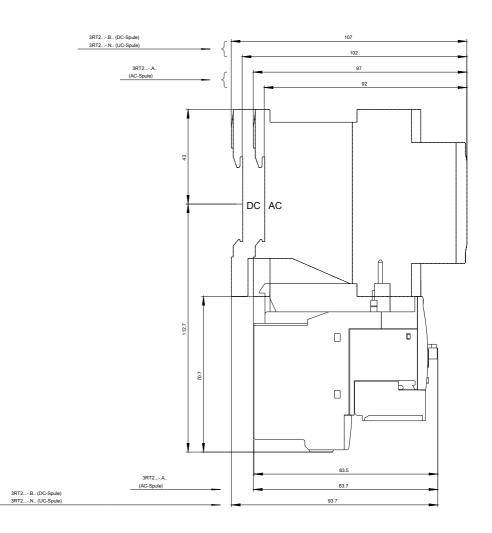
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-1QB0&lang=en

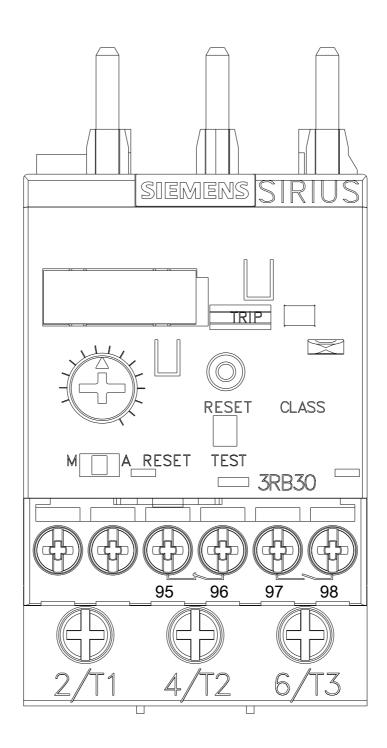
Characteristic: Tripping characteristics, I2t, Let-through current

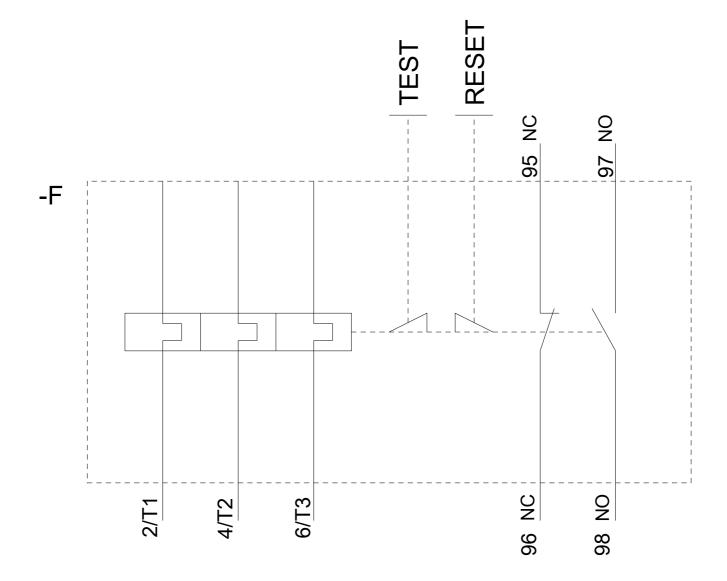
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1QB0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-1QB0&objecttype=14&gridview=view1









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