# **SIEMENS**

### Data sheet

## 3RB3026-2PB0



Overload relay 1...4 A for motor protection Size S0, Class 20 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	SO
Size of contactor can be combined company-specific	SO
Power loss [W] total typical	0.1 W
Insulation voltage with degree of pollution 3 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
• of the terminal	IP20
Shock resistance	15g / 11 ms
• acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles
Thermal current	4 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	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]
Certificate of suitability relating to ATEX	PTB 09 ATEX 3001
Protection against electrical shock	finger-safe
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- dependent overload release	1 4 A
Operating voltage	-
• rated value	690 V
at AC-3 rated value maximum	690 V
Operating frequency rated value	50 60 Hz
Operating current rated value	4 A
Operating power	
<ul> <li>for three-phase motors at 400 V at 50 Hz</li> </ul>	0.37 1.5 kW
● for AC motors at 500 V at 50 Hz	0.37 2.2 kW
• for AC motors at 690 V at 50 Hz	0.55 3 kW
Auxiliary circuit	
Design of the auxiliary switch	integrated
Number of NC contacts for auxiliary contacts	1
- N. (	for our to store discourse time

Note

for contactor disconnection

Note	for message "tripped"
Number of CO contacts	
<ul> <li>for auxiliary contacts</li> </ul>	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	CLASS 20E
Trip class Design of the overload release	electronic
Design of the overload release	electronic
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	4 A
• at 600 V rated value	4 A
Contact rating of auxiliary contacts according to UL	B600 / R300
Short-circuit protection	
Design of the fuse link	
<ul> <li>for short-circuit protection of the main circuit</li> </ul>	
— with type of coordination 1 required	gG: 35 A, RK5: 15 A
- with type of assignment 2 required	gG: 20 A
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 6 A
required	
Installation/ mounting/ dimensions	
Mounting position	any
Mounting type	direct mounting
Height	87 mm
Width	45 mm
Depth	84 mm
Required spacing	
<ul> <li>with side-by-side mounting</li> </ul>	
— forwards	0 mm
	0 mm
— Backwards	

1x (0.5 4 mm2), 2x (0.5 2.5 mm2) 1x (0,5 4 mm2), 2x (0,5 2,5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 1x (20 14), 2x (20 14) 2 2.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm Pozidriv PZ 2
1x (0,5 4 mm2), 2x (0,5 2,5 mm2) 1x (0.5 2.5 mm2), 2x (0.5 1.5 mm2) 1x (20 14), 2x (20 14) 2 2.5 N·m 0.8 1.2 N·m Diameter 5 to 6 mm
1x (0,5 4 mm <sup>2</sup> ), 2x (0,5 2,5 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 14), 2x (20 14) 2 2.5 N·m
1x (0,5 4 mm <sup>2</sup> ), 2x (0,5 2,5 mm <sup>2</sup> ) 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> ) 1x (20 14), 2x (20 14)
1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
1x (0,5 4 mm²), 2x (0,5 2,5 mm²)
1x (0.5 4 mm²), 2x (0.5 2.5 mm²)
1x (16 8), 2x (16 8)
1x (1 6 mm²), 2 x (1 6 mm²), 1x 10 mm²
1x (1 10 mm²), 2x (1 10 mm²)
2x 10 mm <sup>2</sup>
2x (1 2.5 mm²), 2x (2.5 10 mm²)
Top and bottom
screw-type terminals
screw-type terminals
Yes
6 mm
6 mm
6 mm
0 mm
6 mm
6 mm
6 mm
6 mm
0 mm
6 mm
0 mm
0 mm

• for main contacts	M4
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3
Communication/ Protocol	
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
<ul> <li>due to conductor-earth surge acc. to IEC</li> <li>61000-4-5</li> </ul>	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
<ul> <li>due to high-frequency radiation acc. to IEC 61000-4-6</li> </ul>	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	
<ul> <li>for switching status</li> </ul>	Slide switch
Cartificates / an area cla	
Certificates/approvals	EMC For use in
General Product Approval	hazardous locations
	EHE $\underbrace{\widehat{c}}_{C-Tick}$ $\underbrace{\underbrace{k}}_{ATEX}$
Declaration of Test Certificates Conformity	Marine / Shipping
EG-Konf.	
Marine / Shipping	other
PRS RINA RMRS	Confirmation DNV-GL DNVGLCOMAF

#### 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=3RB3026-2PB0

#### Cax online generator

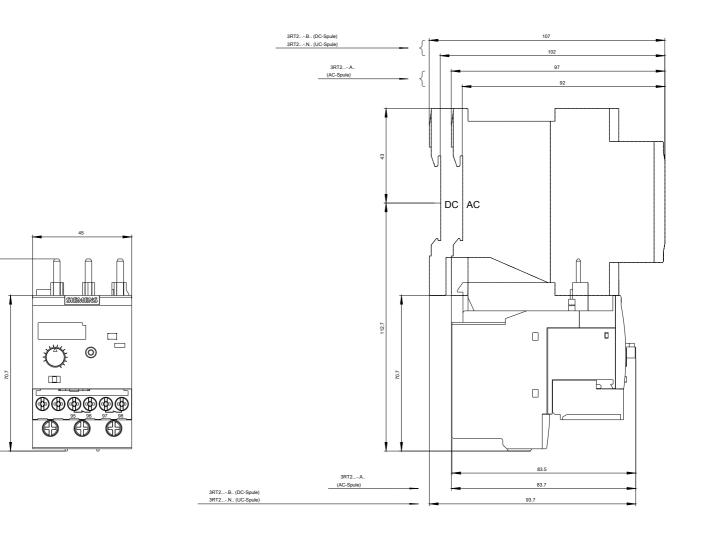
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-2PB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2PB0

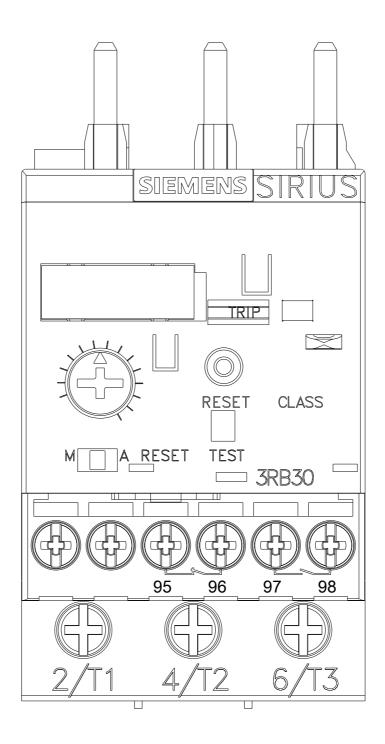
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3026-2PB0&lang=en

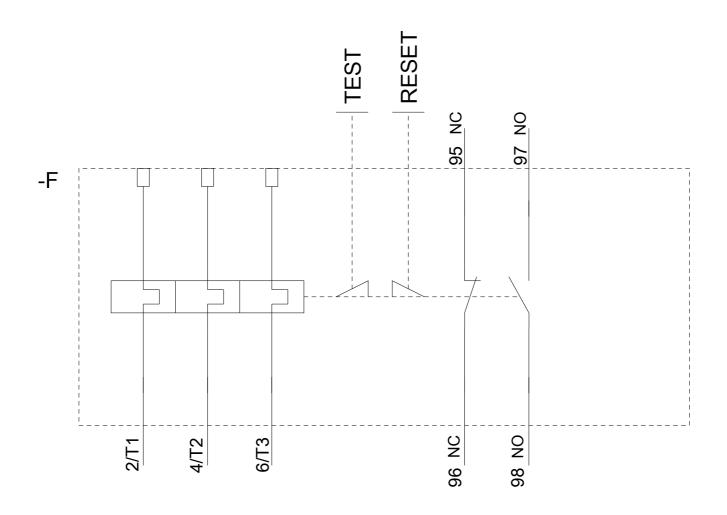
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2PB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-2PB0&objecttype=14&gridview=view1



87.3





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