## 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
power loss [W] for rated value of the current at AC in hot operating state	1.2 W
• per pole	0.4 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 protective separation in networks with grounded star point	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
<ul> <li>between main and auxiliary circuit</li> </ul>	690 V
shock resistance	15g / 11 ms
<ul> <li>according to IEC 60068-2-27</li> </ul>	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms
thermal current	25 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)	10/01/2009
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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	6 25 A
operating voltage	
rated value	690 V
• at AC-3e rated value maximum	690 V

operating frequency rated value	50 60 Hz
operational current rated value	25 A
operational current at AC-3e at 400 V rated value	25 A
operating power	
• for 3-phase motors at 400 V at 50 Hz	3 11 kW
• for AC motors at 500 V at 50 Hz	4 15 kW
• for AC motors at 690 V at 50 Hz	5.5 22 kW
Auxiliary circuit	
design of the auxiliary switch	integrated
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 for auxiliary contacts	
operational current of auxiliary contacts at AC-15	
• at 24 V	4 A
• at 24 V	4 A
• at 120 V	4 A 4 A
• at 125 V	4 A 4 A
• at 125 V • at 230 V	3 A
• at 250 V operational current of auxiliary contacts at DC-13	
• at 24 V	2 A
• at 24 V • at 60 V	2 A 0.55 A
• at 50 V	0.55 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 3-phase AC motor	
at 480 V rated value	25 A
at 400 V rated value     at 600 V rated value	25 A 25 A
contact rating of auxiliary contacts according to UL	B600 / R300
Short-circuit protection	60077300
design of the fuse link	
-	
for short-circuit protection of the main circuit	~C: 125 A DK5: 100 A
— 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 required	fuse gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any Contactor mounting
fastening method	Contactor mounting
height	87 mm
width	45 mm
depth	84 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
for main current circuit	screw-type terminals
<ul> <li>for auxiliary and control 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	2x (1 2.5 mm²), 2x (2.5 10 mm²)
• stranded	2x 10 mm <sup>2</sup>
solid or stranded	1x (1 10 mm²), 2x (1 10 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	1x (1 6 mm²), 2 x (1 6 mm²), 1x 10 mm²
type of connectable conductor cross-sections	
<ul> <li>for auxiliary contacts</li> </ul>	

— 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)	
<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)	
<ul> <li>for AWG cables for auxiliary contacts</li> </ul>	1x (20 14), 2x (20 14)	
tightening torque		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m	
	0.8 1.2 N·m	
for auxiliary contacts with screw-type terminals		
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		
<ul> <li>for main contacts</li> </ul>	M4	
<ul> <li>of the auxiliary and control contacts</li> </ul>	M3	
Electrical Safety		
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		_
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• due to burst according to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3	3
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	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	
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz	2
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	
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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

45

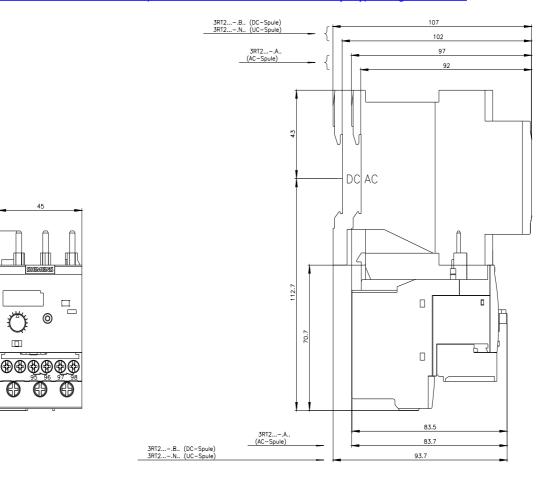
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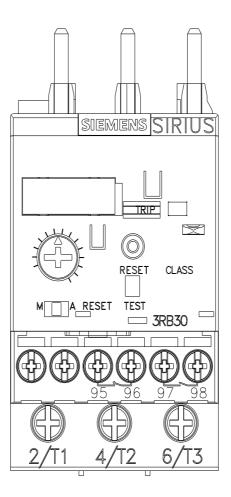
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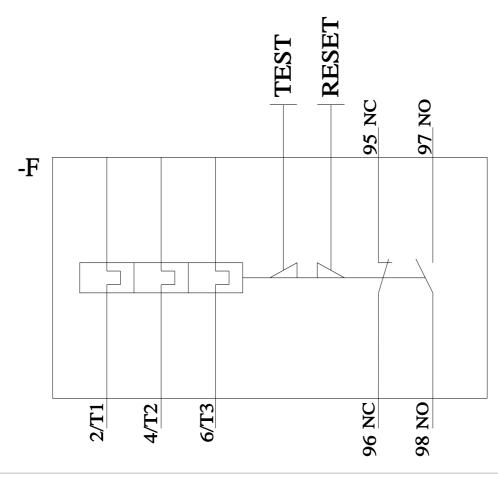
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https://support.industry.siemens.com/cs/ww/en/ps/3RB30 6-1QB0/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-1QB0&objecttype=14&gridview=view1







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