## SIEMENS

## Data sheet

## 3RB3026-1VB0



Overload relay 10...40 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	SO
size of contactor can be combined company-specific	SO
power loss [W] for rated value of the current at AC in hot operating state	3 W
• per pole	1 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
according to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms
thermal current	40 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	
<ul> <li>during operation</li> </ul>	-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	10 40 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	40 A
operational current at AC-3e at 400 V rated value	40 A
operating power	
• for 3-phase motors at 400 V at 50 Hz	5.5 18.5 kW
<ul> <li>for AC motors at 500 V at 50 Hz</li> </ul>	7.5 22 kW
• for AC motors at 690 V at 50 Hz	11 37 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	0
operational 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
operational 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 3-phase AC motor	
• at 480 V rated value	40 A
• at 600 V rated value	40 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: 125 A, J: 150 A
<ul> <li>— with type of assignment 2 required</li> </ul>	gG: 80 A, J: 100 A
• for short-circuit protection of the auxiliary switch required	fuse gG: 6 A
Installation/ mounting/ dimensions	
mounting position	any
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>
<ul> <li>solid or stranded</li> </ul>	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>	

<ul> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> <li>tightening torque</li> <li>• for main contacts with screw-type terminals</li> </ul>	1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> ) 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	
<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	M4	
of the auxiliary and control contacts	M3	
Safety related data	1200	
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		
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 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	
• 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	
Approvals Certificates		
General Product Approval	EMC	
	Lino	
For use in hazard- ous locations Declaration of Conformity	Test Certificates Marine / Shipping	
رج UK (د	Special Test Certific- ate ates/Test Report	
ATEX CA EG-Konf.	ABS	
Marine / Shipping	other	
Kegister 👔	Confirmation	
LRS PRS RINA	E4WILLCOM A	
Further information		
Siemens has decided to exit the Russian market (see here).         https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business         Siemens is working on the renewal of the current EAC certificates.         Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).         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=3RB3026-1VB0 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-1VB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1VB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3026-1VB0&lang=en

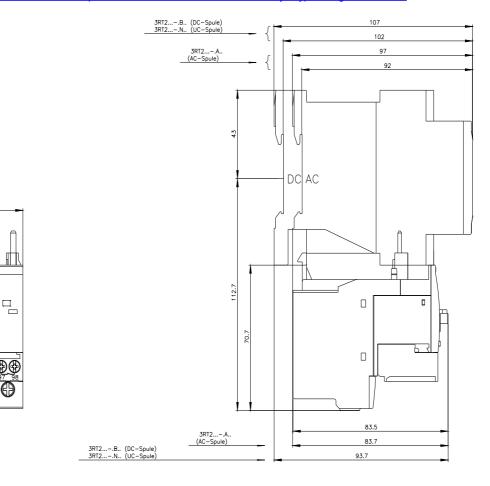
Characteristic: Tripping characteristics, I2t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB30 -1VB0/char

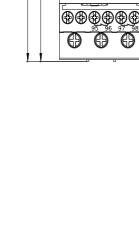
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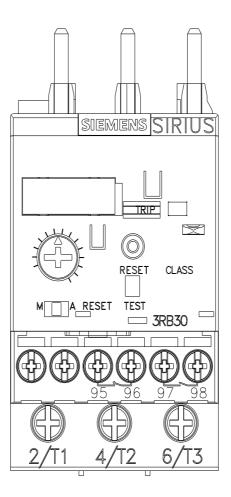
Further characteristics (e.g. electrical endurance, switching frequency)

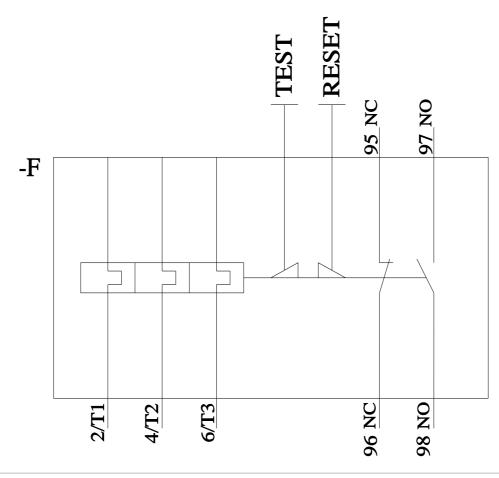
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-1VB0&objecttype=14&gridview=view1





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