## SIEMENS

## Data sheet

## 3RB3026-2VB0



Overload relay 10...40 A Electronic 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] 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	32 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	10 40 A			
operating voltage				
rated value	690 V			
<ul> <li>at AC-3e rated value maximum</li> </ul>	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	32 A			
operating power				
• for 3-phase motors at 400 V at 50 Hz	5.5 18.5 kW			
• for AC motors at 500 V at 50 Hz	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				
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	4A			
• at 230 V	4 A 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 20E			
design of the overload release	electronic			
UL/CSA ratings				
full-load current (FLA) for 3-phase AC motor				
at 480 V rated value	32 A			
at 600 V rated value	32 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, J: 150 A			
— with type of assignment 2 required	gG: 80 A, J: 100 A			
<ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>	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				
	screw-type terminals			
for main current circuit	screw-type terminals			
	screw-type terminals screw-type terminals Top and bottom			
for main current circuit     for auxiliary and control circuit arrangement of electrical connectors for main current	screw-type terminals			
for main current circuit     for auxiliary and control circuit     arrangement of electrical connectors for main current     circuit	screw-type terminals			
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	screw-type terminals Top and bottom			
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	screw-type terminals           Top and bottom           2x (1 2.5 mm²), 2x (2.5 10 mm²)           2x 10 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         solid or stranded	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x 10 mm <sup>2</sup> 1x (1 10 mm <sup>2</sup> ), 2x (1 10 mm <sup>2</sup> )			
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         of stranded         of inely stranded with core end processing	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x 10 mm <sup>2</sup>			
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	screw-type terminals Top and bottom 2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x 10 mm <sup>2</sup> 1x (1 10 mm <sup>2</sup> ), 2x (1 10 mm <sup>2</sup> )			

— solid		1x (	0.5 4 mm²), 2x (0.5 2	.5 mm²)			
— solid or stra	nded	1x (	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)				
- finely strand	<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</li> </ul>	with screw-type terminals	2	2.5 N·m				
<ul> <li>for auxiliary containing</li> </ul>	acts with screw-type terminals	0.8	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							
<ul> <li>for main contacts</li> </ul>		M4					
<ul> <li>of the auxiliary all</li> </ul>		M3					
Safety related data		NIO					
	the front cocording to IEC 60520	IP20	)				
protection class IP on the front according to IEC 60529							
-	touch protection on the front according to IEC 60529			finger-safe, for vertical contact from the front			
Communication/ Protoc		_					
	via input/output link master	No	No				
Electromagnetic compa	tibility	_					
conducted interference	e						
<ul> <li>due to burst accord</li> </ul>	ording to IEC 61000-4-4	2 k\	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3				
<ul> <li>due to conductor</li> </ul>	-earth surge according to IEC 61000-4-5	5 2 k∖	/ (line to earth) correspond	Is to degree of severity 3			
<ul> <li>due to conductor</li> <li>61000-4-5</li> </ul>	due to conductor-conductor surge according to IEC		1 kV (line to line) corresponds to degree of severity 3				
<ul> <li>due to high-frequ</li> <li>4-6</li> </ul>	ency radiation according to IEC 61000-	10 \	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz				
field-based interferen	ce according to IEC 61000-4-3	10 \	10 V/m				
	e according to IEC 61000-4-2	6 k∖	6 kV contact discharge / 8 kV air discharge				
Display	5		Ŭ	Ŭ			
display version for swite	hing status	Slide	e switch				
Approvals Certificates		Cha	C SWIGH				
					EMC		
General Product App	ovai				ENIC		
() E	Confirmation	)		EAC	RCM		
For use in hazard- ous locations	Declaration of Conformity		Test Certificates		Marine / Shipping		
XTEX	CE EG-Konf.	< A	Type Test Certific- ates/Test Report	Special Test Certific- ate	ABS		
Marine / Shipping				other			
Lloyds Register urs	PRS RIN/	<b>)</b>	DNV-GL DNV-GL	<u>Confirmation</u>			
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=3RB3026-2VB0 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-2VB0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2VB0

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

http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3026-2VB0&lang=en

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

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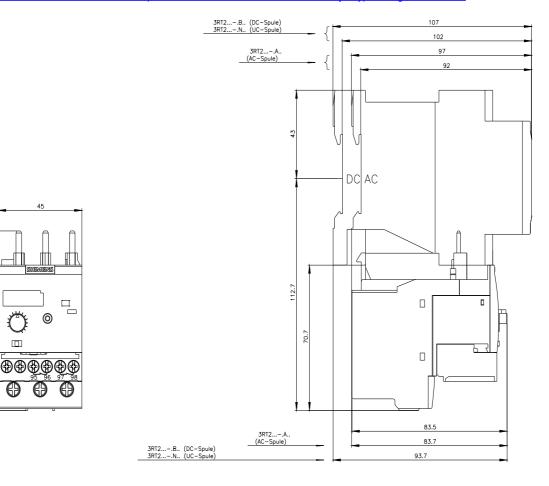
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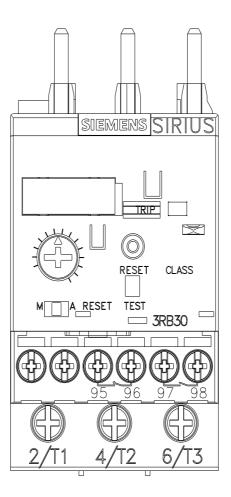
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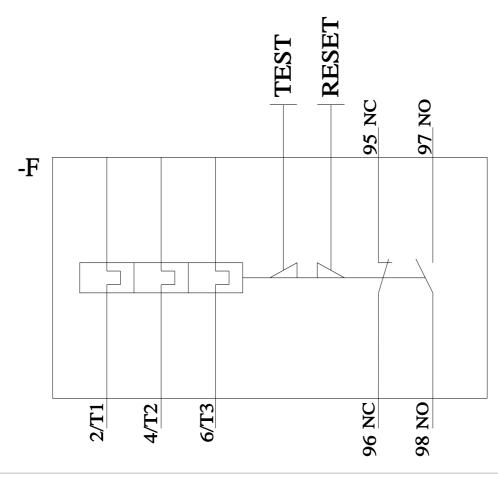
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Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-2VB0&objecttype=14&gridview=view1







## last modified:

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