## SIEMENS

## Data sheet

## 3RB3026-2QB0



Overload relay 6...25 A Electronic For motor protection Size S0, Class 20E 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	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 safe isolation 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				
• acc. to IEC 60068-2-27	15g / 11 ms; Signaling contact 97 / 98 in position "Tripped": 9g / 11 ms				
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles				
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 acc. to IEC 81346-2	F				
Substance Prohibitance (Date)	01.10.2009				
Ambient conditions					
installation altitude at height above sea level maximum	2 000 m				
ambient temperature					
<ul> <li>during operation</li> </ul>	-25 +60 °C				
<ul> <li>during storage</li> </ul>	-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		
operating frequency rated value	50 60 Hz		
operational current 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	0		
operational current of auxiliary contacts at AC-15	Ŭ		
• 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	0.117		
	CLASS 20E		
trip class 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 600 V rated value	25 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, RK5: 100 A		
— with type of assignment 2 required	gG: 63 A, J: 100 A		
<ul> <li>for short-circuit protection of the auxiliary switch</li> </ul>	fuse gG: 6 A		
required			
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			
<ul> <li>for main current circuit</li> </ul>	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> <li>at AWG cables for main contacts</li> </ul>			1x (1 6 mm²), 2 x (1 6 mm²), 1x 10 mm² 1x (16 8), 2x (16 8)			
	e conductor cross-sect	ions	TX (1	0 0), 2X (10 8)			
<ul> <li>for auxiliary co</li> </ul>		lono					
— solid		1x (0	.5 4 mm²), 2x (0.5	2.5 mm <sup>2</sup> )			
	— solid or stranded			, ,	,		
	<ul> <li>— finely stranded with core end processing</li> </ul>			1x (0,5 4 mm²), 2x (0,5 2,5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
<ul> <li>at 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	2 2.5 N·m			
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>			0.8 1.2 N·m				
			-	eter 5 to 6 mm			
design of screwdriver shaft size of the screwdriver tip			-	Pozidriv PZ 2			
	•	ew					
-	<ul> <li>design of the thread of the connection screw</li> <li>for main contacts</li> </ul>						
<ul> <li>of the auxiliary</li> </ul>	and control contacts		M3				
Safety related data							
	on the front acc. to IEC	60529	IP20				
· ·	the front acc. to IEC 6			r-safe, for vertical conta	act from the front		
Communication/ Pro			inige				
	ply via input/output lin	k master	No				
Electromagnetic com			NO				
conducted interfere							
			2 1/1	$(now or norto) = \frac{1}{k} \frac{k}{c}$	anal porta) correction	to to dograd of covority	
	<ul> <li>due to burst acc. to IEC 61000-4-4</li> </ul>		3	(power ports), i kv (sig	grial ports) correspond	ds to degree of severity	
<ul> <li>due to conduct</li> </ul>	<ul> <li>due to conductor-earth surge acc. to IEC 61000-4-5</li> </ul>		2 kV	(line to earth) correspo	nds to degree of seve	erity 3	
	tor-conductor surge acc.			(line to line) correspond	-		
61000-4-5	0			· · · ·	0	, ,	
<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-based interferent	field-based interference 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 sv	vitching status		Slide	switch			
Certificates/ approva	ls						
General Product A	pproval				EMC	For use in hazard- ous locations	
	-	-			•	_	
<b>(5</b> )	(m)			FAL		6.2	
<b>W</b>	<u>u</u>	ঙ		T M L	<u></u>	$\nabla x$	
CSA	ccc	UL			RCM	ATEX	
Declaration of	Test Certificates			Marina / Chinning			
Conformity	Test Certificates			Marine / Shipping			
~ ~	Special Test Certific-	Type Test Ce ates/Test Re		Llovds	(And )	ALA	
	ate	ales/Test Re	<u>eport</u>	Régister	(AL)	(32)	
EG-Konf.				LRS	PRS	RINA	
Marina / Chinning		other					
Marine / Shipping		other					
æ	-#7%0 s.	Confirmatio	on				
	DNV-GL						
RMRS							
	Devolution						
	DWOLLCOMO						

## Further information

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=3RB3026-2QB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-2QB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2QB0

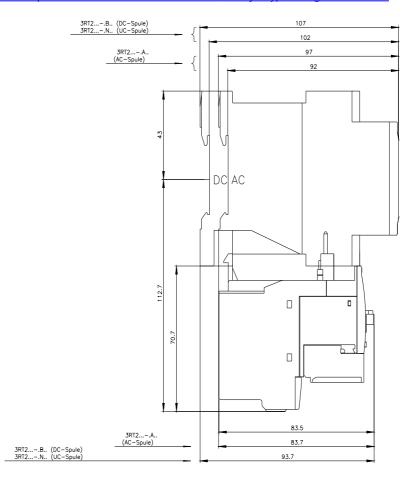
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3026-2QB0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3026-2QB0&lang=en</a>

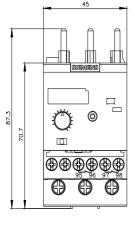
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

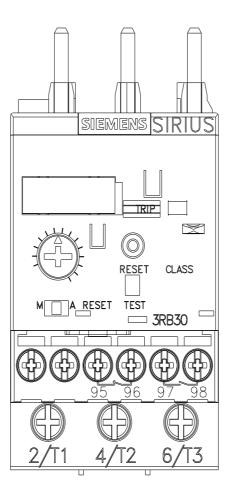
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2QB0/char

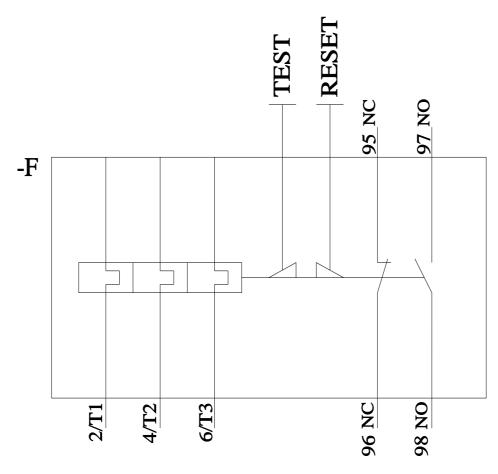
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-2QB0&objecttype=14&gridview=view1









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