



## Data sheet

## 3RB3026-1QB0

Overload relay 6...25 A for motor protection Size S0, Class 10E Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset



rload relay

Auxiliary circuit Design of the auxiliary switch	integrated			
• for AC motors at 690 V at 50 Hz	5.5 22 kW			
• for AC motors at 500 V at 50 Hz	4 15 kW			
• for three-phase motors at 400 V at 50 Hz	3 11 kW			
Operating power				
Operating current rated value	25 A			
Operating frequency rated value	50 60 Hz			
• at AC-3 rated value maximum	690 V			
rated value	690 V			
Operating voltage				
Adjustable pick-up value current of the current- dependent overload release	6 25 A			
Number of poles for main current circuit	3			
Main circuit				
	10 00 70			
Temperature compensation           Relative humidity during operation	-25 +60 °C 10 95 %			
during transport	-40 +80 °C -25 +60 °C			
during storage	-40 +80 °C			
during operation	-25 +60 °C			
Ambient temperature	25 100 %			
• maximum	2 000 m			
Installation altitude at height above sea level				
Ambient conditions				
Reference code acc. to DIN EN 81346-2	F			
Protection against electrical shock	finger-safe			
Certificate of suitability relating to ATEX	PTB 09 ATEX 3001			
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]			
after overload trip with manual reset	0 min			
<ul> <li>after overload trip with remote-reset</li> </ul>	0 min			
<ul> <li>after overload trip with automatic reset typical</li> </ul>	3 min			
Recovery time				
Thermal current	25 A			
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles			
• acc. to IEC 60068-2-27	15g / 11 ms			
Shock resistance	15g / 11 ms			
• of the terminal	IP20			
• on the front	IP20			

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			
<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 Trip class	CLASS 10E		
Design of the overload release	electronic		
UL/CSA ratings			
Full-load current (FLA) for three-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>			
<ul> <li>— with type of coordination 1 required</li> </ul>	gG: 125 A, RK5: 100 A		
<ul> <li>— with type of assignment 2 required</li> </ul>	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		
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	0 mm 0 mm		

Design of the thread of the connection screw			
Size of the screwdriver tip	Pozidriv PZ 2		
Design of screwdriver shaft	Diameter 5 to 6 mm		
<ul> <li>for auxiliary contacts with screw-type terminals</li> </ul>	0.8 1.2 N·m		
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m		
Tightening torque			
<ul> <li>at AWG conductors for auxiliary contacts</li> </ul>	1x (20 14), 2x (20 14)		
— finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)		
— single or multi-stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)		
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)		
<ul> <li>for auxiliary contacts</li> </ul>			
Type of connectable conductor cross-sections			
• at AWG conductors for main contacts	1x (16 8), 2x (16 8)		
— finely stranded with core end processing	1x (1 6 mm²), 2 x (1 6 mm²), 1x 10 mm²		
— single or multi-stranded	1x (1 10 mm²), 2x (1 10 mm²)		
— stranded	2x 10 mm <sup>2</sup>		
— solid	2x (1 2.5 mm²), 2x (2.5 10 mm²)		
• for main contacts			
Type of connectable conductor cross-sections			
Arrangement of electrical connectors for main current circuit	Top and bottom		
for auxiliary and control current circuit	screw-type terminals		
<ul> <li>for main current circuit</li> </ul>	screw-type terminals		
Type of electrical connection			
<ul> <li>removable terminal for auxiliary and control circuit</li> </ul>	Yes		
Product function			
Connections/Terminals			
— at the side	6 mm		
— downwards	6 mm		
— upwards	6 mm		
— Backwards	0 mm		
— forwards	6 mm		
• for live parts			
— downwards	6 mm		
— at the side	6 mm		
— upwards	6 mm		
— Backwards	0 mm		
— forwards	6 mm		
<ul> <li>for grounded parts</li> </ul>			
— at the side	0 mm		
— downwards	0 mm		

• for main contac	cts		M4			
<ul> <li>of the auxiliary</li> </ul>	of the auxiliary and control contacts			M3		
Communication/ Pro						
Type of voltage supply via input/output link master			No			
Electromagnetic cor	mpatibility					
Conducted interferer						
• due to burst acc. to IEC 61000-4-4		2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3				
• due to conductor-earth surge acc. to IEC 61000-4-5			2 kV (line to earth) corresponds to degree of severity 3			
<ul> <li>due to conductor-conductor surge acc. to IEC 61000-4-5</li> </ul>			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 parasition	coupling acc. to IEC	61000-4-3	10 V/m			
Electrostatic discharg	Electrostatic discharge acc. to IEC 61000-4-2			arge / 8 kV air discharg	ge	
Display						
Display version						
<ul> <li>for switching st</li> </ul>	atus		Slide switch			
Certificates/approva			_	_		
General Product				EMC	For use in haz-	
Concrar roudo	, prova			LING	ardous loca- tions	
	CSA		EHC	C-Tick	ATEX ATEX	
Declaration of Conformity			ertificates Marine / Shipping			
	Type Test Certific-	Special Test (	Certi-	Lloyde	and a second	
EG-Konf.	ates/Test Report	ficate		Register	PRS	
EG-Konf.	ates/Test Report	ficate	BUREAU VERITAS		PRS	
EG-Konf. Marine / Shippin		ticate	BUREAU VERITAS	LRS	PRS	
		TICATE			PRS	

## 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=3RB3026-1QB0

## Cax online generator

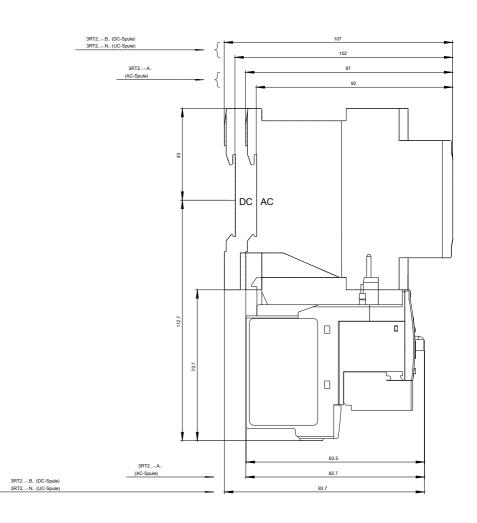
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-1QB0

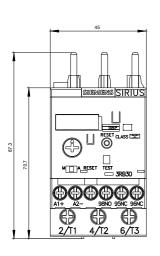
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1QB0

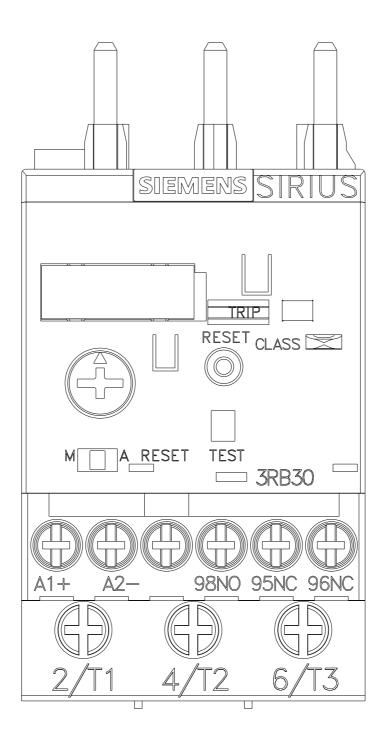
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3026-1QB0&lang=en

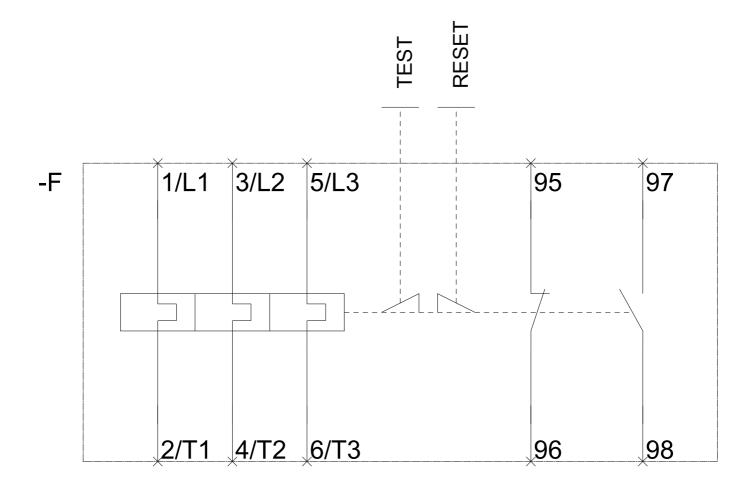
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1QB0/char

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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