



Data sheet

3RB3026-1PB0

Overload relay 1...4 A 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] total typical	0.1 W
Insulation voltage with degree of pollution 3 rated	690 V
value	
Surge voltage resistance rated value	6 kV
maximum permissible voltage for safe isolation	
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between auxiliary and auxiliary circuit 	300 V
 in networks with grounded star point between main and auxiliary circuit 	600 V
 in networks with grounded star point between main and auxiliary circuit 	690 V
Protection class IP	

• on the front	IP20		
• of the terminal	IP20		
Shock resistance	15g / 11 ms		
• acc. to IEC 60068-2-27	15g / 11 ms		
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s²; 10 cycles		
Thermal current	4 A		
Recovery time	-		
 after overload trip with automatic reset typical 	3 min		
 after overload trip with remote-reset 	0 min		
 after overload trip with manual reset 	0 min		
Type of protection	II (2) G [Ex e] [Ex d] [Ex px] II (2) D [Ex t] [Ex p]		
Certificate of suitability relating to ATEX	PTB 09 ATEX 3001		
Protection against electrical shock	finger-safe		
Reference code acc. to DIN EN 81346-2	F		
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 pick-up value current of the current- dependent overload release	1 4 A		
Operating voltage	-		
• rated value	690 V		
 at AC-3 rated value maximum 	690 V		
Operating frequency rated value	50 60 Hz		
Operating current rated value	4 A		
Operating power			
 for three-phase motors at 400 V at 50 Hz 	0.37 1.5 kW		
● for AC motors at 500 V at 50 Hz	0.37 2.2 kW		
• for AC motors at 690 V at 50 Hz	0.55 3 kW		
Auxiliary circuit			
Design of the auxiliary switch	integrated		
Number of NC contacts for auxiliary contacts	1		
- N. (for our to store discourse time		

Note

for contactor disconnection

• Note	for message "tripped"
Number of CO contacts	
 for auxiliary contacts 	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	CLASS 10E
Trip class Design of the overload release	electronic
Design of the overload release	
UL/CSA ratings	
Full-load current (FLA) for three-phase AC motor	
• at 480 V rated value	4 A
• at 600 V rated value	4 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: 35 A, RK5: 15 A
- with type of assignment 2 required	gG: 20 A
 for short-circuit protection of the auxiliary switch 	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	
 with side-by-side mounting 	
— forwards	0 mm
— Backwards	0 mm
— upwards	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		
 for auxiliary contacts with screw-type terminals 	0.8 1.2 N·m		
 for main contacts with screw-type terminals 	2 2.5 N·m		
Tightening torque			
 at AWG conductors for auxiliary contacts 	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)		
 for auxiliary contacts 			
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 ²		
— 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		
 for main current circuit 	screw-type terminals		
Type of electrical connection			
 removable terminal for auxiliary and control circuit 	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		
 for grounded parts 			
— at the side	0 mm		
— downwards	0 mm		

• for main contacts	M4			
 of the auxiliary and control contacts 	M3			
Communication/ Protocol				
Type of voltage supply via input/output link master	No			
Electromagnetic compatibility				
Conducted interference				
• 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			
 due to conductor-conductor surge acc. to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3			
 due to high-frequency radiation acc. to IEC 61000-4-6 	c. to IEC 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz			
Field-bound parasitic coupling 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 switching status 	Slide switch	Slide switch		
Certificates/approvals				
General Product Approval	EMC	For use in		
		hazardous locations		
		ATEX		
Declaration of Test Certificates Conformity	Marine / Shipping			
EG-Konf. Type Test Certificates/Test Report Special Te Certificates/ Report		Llovd's Register LRS		
Marine / Shipping	other			
PRS RINA RMRS	DNV-GL DNVGLCOM/AF	ation		

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=3RB3026-1PB0

Cax online generator

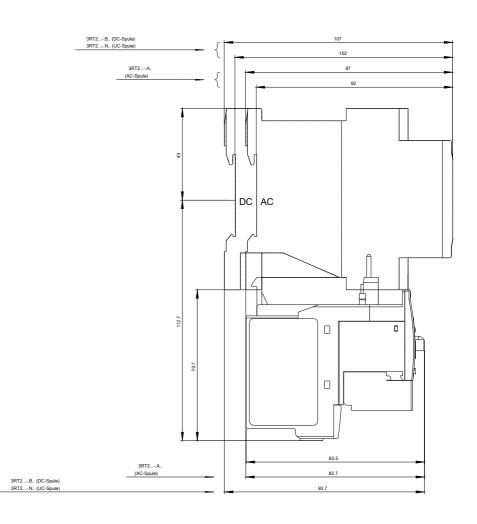
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3026-1PB0

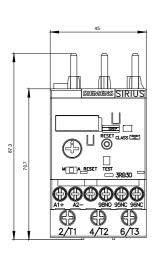
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1PB0

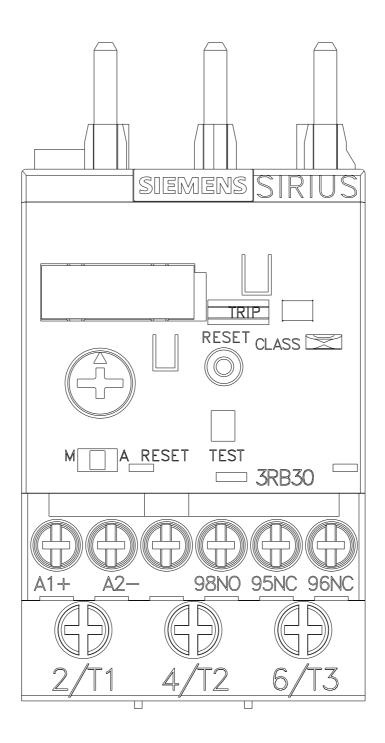
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-1PB0&lang=en_____

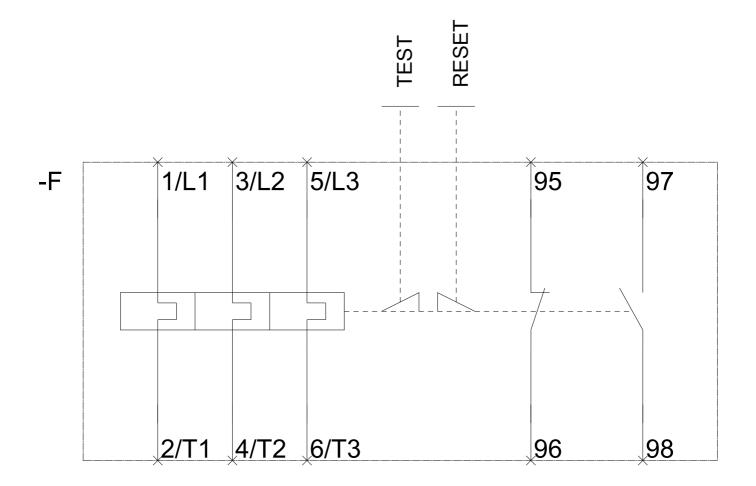
Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1PB0/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-1PB0&objecttype=14&gridview=view1









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