SIEMENS

Data sheet 3RB3026-1QB0

OVERLOAD RELAY 6...25 A FOR MOTOR PROTECTION SIZE S0, CLASS 10 CONTACTOR ASS. MAIN CIRCUIT: SCREW CONN. AUX.CIRCUIT: SCREW CONN. MANUAL-AUTOM.-RESET



product brand name	SIRIUS
Product designation	solid-state overload relay

General technical data:	
Size of overload relay	S0
Size of contactor can be combined company-specific	S0
Power loss [W] total typical	1.2 W
Insulation voltage with degree of pollution 3 rated value	690 V
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	
• acc. to IEC 60068-2-27	15g / 11 ms
Vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
Thermal current	25 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
Equipment marking acc. to DIN EN 81346-2	F
Ambient conditions:	
Installation altitude at height above sea level	2 000 m

Ambient conditions:	
Installation altitude at height above sea level	2 000 m
maximum	
Ambient temperature	
during operation	-25 +60 °C
during storage	-40 +80 °C
during transport	-40 +80 °C
Temperature compensation	6025 °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	6 25 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	25 A

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
Operating current of auxiliary contacts at AC-15	

4 A
4 A
4 A
4 A
3 A
3
2 A
0.55 A
0.3 A
0.3 A
0.11 A

Protective and monitoring functions: Trip class Class 10 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

• for short-circuit protection of the auxiliary switch required

fuse gG: 6 A

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
— downwards	0 mm
— at the side	0 mm
• for grounded parts	
— forwards	6 mm
— Backwards	0 mm
— upwards	6 mm

— at the side	6 mm
— downwards	6 mm
• for live parts	
— forwards	6 mm
— Backwards	0 mm
— upwards	6 mm
— downwards	6 mm
— at the side	6 mm

Connections/ Terminals:	
Product function	
 removable terminal for auxiliary and control 	Yes
circuit	
Type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control current circuit 	screw-type terminals
Arrangement of electrical connectors for main current circuit	Top and bottom
Type of connectable conductor cross-sections	
• for main contacts	
 single or multi-stranded 	1x (1 10 mm²), 2x (1 10 mm²)
 finely stranded with core end processing 	1x (1 6 mm²), 2 x (1 6 mm²), 1x 10 mm²
 at AWG conductors for main contacts 	1x (16 8), 2x (16 8)
Type of connectable conductor cross-sections	
• for auxiliary contacts	
single or multi-stranded	1x (0,5 4 mm²), 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)
 finely stranded with core end processing 	1x (0.5 1.5 mm²), 2x (0.5 1.5 mm²), 1x (0.5 2.5 mm²)
 at AWG conductors for auxiliary contacts 	1x (20 14), 2x (20 14)
Tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N⋅m
• for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
Design of screwdriver shaft	Diameter 5 to 6 mm
Design of the thread of the connection screw	
• for main contacts	M4
• of the auxiliary and control contacts	M3
O	

Communication/ Protocol: Type of voltage supply via input/output link master	No
Electromagnetic compatibility:	
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	

Slide switch

Certificates/approvals

General Product Approval	EMC	For use in
		hazardous
		locations













Declaration of Conformity	Test Certificates		Shipping Approval		
ϵ	Typprüfbescheinigu ng/Werkszeugnis	spezielle Prüfbescheinigunge n	CAN BITTON	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GL®
EG-Konf.		_	ABS	BUREAU	GL

Shipping Approval

other





Umweltbestätigung

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=3RB30261QB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB30261QB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB30261QB0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB30261QB0&lang=en



