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		
Seneral technical data			
size of overload relay	S0		
size of contactor can be combined company-specific	S0		
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 safe isolation in networks with grounded star point			
 between auxiliary and auxiliary circuit 	300 V		
 between auxiliary and auxiliary circuit 	300 V		
 between main and auxiliary circuit 	600 V		
 between main and auxiliary circuit 	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	32 A		
recovery time after overload trip			
 with automatic reset typical 	3 min		
with remote-reset	0 min		
with manual reset	0 min		
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 00:00:00		
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	10 40 A
current-dependent overload release	
operating voltage	
rated value	690 V
 at AC-3 rated value maximum 	690 V
operating frequency rated value	50 60 Hz
operational current rated value	40 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
	11 57 NVV
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	
• 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	VA .
• 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
	5000,1000
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
for short-circuit protection of the auxiliary switch	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	Yes
control circuit	
type of electrical connection	
••	

for main current circuit	screw-type terminals				
for auxiliary and control circuit	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 mm²				
— solid or 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 cables for main contacts	1x (16 8), 2x (16 8)				
type of connectable conductor cross-sections					
 for auxiliary contacts 					
— solid	1x (0.5 4 mm²), 2x (0.5 2.5 mm²)				
— solid or stranded	1x (0,5 4 mm²), 2x (0,5 2,5 mm²)				
— finely stranded with core end processing	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)				
at AWG cables 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				
size of the screwdriver tip	Pozidriv PZ 2				
design of the thread of the connection screw • for main contacts	MA				
of the auxiliary and control contacts	M4				
Safety related data	M3				
protection class IP on the front acc. to IEC 60529	IP20				
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front				
Communication/ Protocol	illiger-sale, for vertical conta	ot from the from			
	No				
type of voltage supply via input/output link master	INU				
Electromagnetic compatibility					
onducted interference ■ due to burst acc. to IEC 61000-4-4	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity				
• 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 	10 V in frequency range 0.15 to 80 MHz, modulation 80 $\%$ AM with 1 kHz				
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 switching status	Slide switch				
Certificates/ approvals					
General Product Approval		EMC	For use in hazard- ous locations		













Declaration of Conformity

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other







Confirmation

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=3RB3026-2VB0

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, ...)

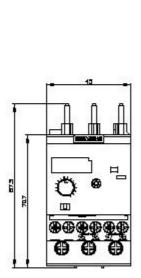
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-2VB0&lang=en

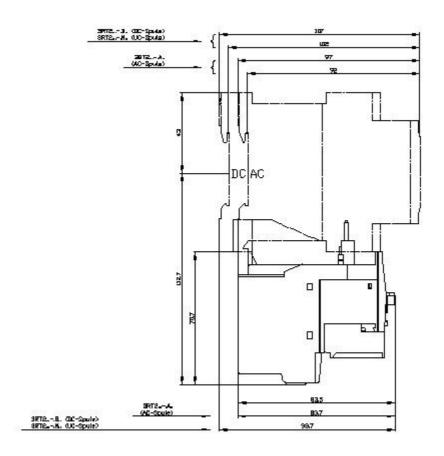
Characteristic: Tripping characteristics, I2t, Let-through current

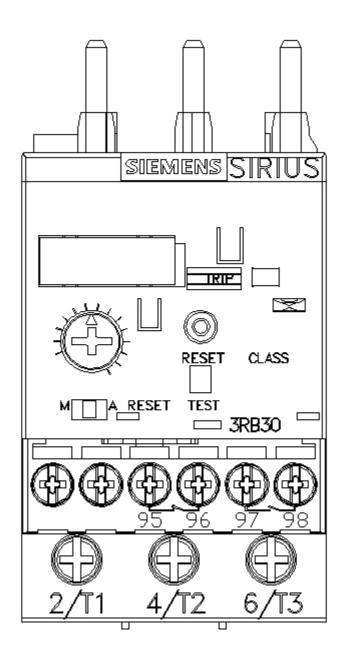
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-2VB0/char

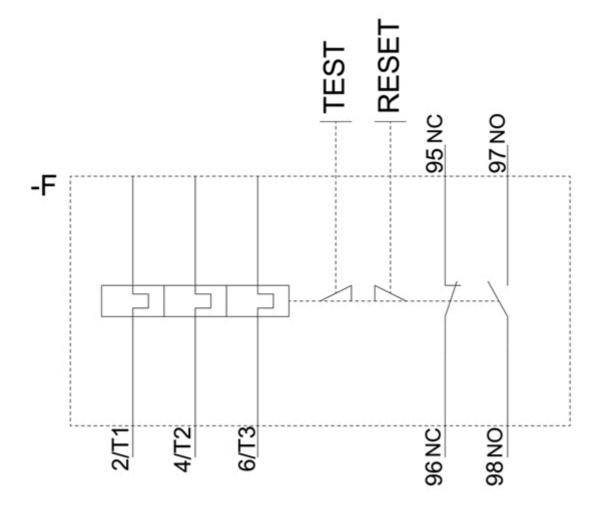
Further characteristics (e.g. electrical endurance, switching frequency)

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









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