SIEMENS

Data sheet 3RB3026-1RE0



Overload relay 0.1...0.4 A Electronic For motor protection Size S0, Class 10E Contactor mounting Main circuit: Spring-type terminal Auxiliary circuit: Spring-type terminal 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] for rated value of the current at AC in hot operating state	0.1 W
• per pole	0.03 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
according 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/s ² ; 10 cycles
thermal current	0.4 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 according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
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 current-dependent overload release	0.1 0.4 A
operating voltage	
rated value	690 V
at AC-3e rated value maximum	690 V

operating frequency rated value	50 60 Hz
operational current rated value	0.4 A
operational current at AC-3e at 400 V rated value	0.4 A
operating power	
 for 3-phase motors at 400 V at 50 Hz 	0.04 0.09 kW
 for AC motors at 500 V at 50 Hz 	0.04 0.12 kW
 for AC motors at 690 V at 50 Hz 	0.06 0.18 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	
● 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	2.4
• at 24 V	2 A
at 60 V at 110 V	0.55 A 0.3 A
• at 125 V	0.3 A
• at 220 V	0.11 A
Protective and monitoring functions	U.IIA
	CLASS 10E
trip class design of the overload release	electronic
UL/CSA ratings	electionic
full-load current (FLA) for 3-phase AC motor • at 480 V rated value	0.4 A
at 600 V rated value at 600 V rated value	0.4 A
contact rating of auxiliary contacts according to UL	B600 / R300
Short-circuit protection	2000 / 1.000
design of the fuse link	
for short-circuit protection of the main circuit	
with type of coordination 1 required	gG: 35 A, RK5: 3 A
— with type of assignment 2 required	gG: 4 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	109 mm
width	45 mm
depth	85 mm
Connections/ Terminals	
product component removable terminal for auxiliary and control circuit	Yes
type of electrical connection	
 for main current circuit 	spring-loaded terminals
 for auxiliary and control circuit 	spring-loaded terminals
arrangement of electrical connectors for main current	Top and bottom
circuit	
type of connectable conductor cross-sections o for main contacts	
— solid	1x (1 10 mm²)
— stranded	1x (1 10 mm²
— solid or stranded	
John of Strational	1x (1 1() mm²)
 finely stranded with core end processing 	1x (1 10 mm²) 1x (1 6 mm²)
— finely stranded with core end processing — finely stranded without core end processing	1x (1 6 mm²)
 finely stranded with core end processing finely stranded without core end processing at AWG cables for main contacts 	

type of connectable conductor cross-sections	
 for auxiliary contacts 	
— solid	2x (0.25 1.5 mm²)
 — solid or stranded 	2x (0,25 1,5 mm²)
 finely stranded with core end processing 	2x (0.25 1.5 mm²)
 finely stranded without core end processing 	2x (0.25 1.5 mm²)
 at AWG cables for auxiliary contacts 	1x (24 16), 2x (24 16)
design of screwdriver shaft	Diameter 5 to 6 mm
size of the screwdriver tip	Pozidriv PZ 2
Safety related data	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front
Communication/ Protocol	
type of voltage supply via input/output link master	No
Electromagnetic compatibility	
conducted interference	
 due to burst according to IEC 61000-4-4 	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
 due to conductor-earth surge according to IEC 61000-4-5 	2 kV (line to earth) corresponds to degree of severity 3
	411/4/2011 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
 due to conductor-conductor surge according to IEC 61000-4-5 	1 kV (line to line) corresponds to degree of severity 3
	1 kV (line to line) corresponds to degree of severity 3 10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
61000-4-5● due to high-frequency radiation according to IEC	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1
 61000-4-5 ◆ due to high-frequency radiation according to IEC 61000-4-6 	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
61000-4-5 • due to high-frequency radiation according to IEC 61000-4-6 field-based interference according to IEC 61000-4-3	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz 10 V/m

Certificates/ approvals

General Product Approval







Confirmation







For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping





P







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=3RB3026-1RE0

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RB3026-1RE0$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1RE0

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3026-1RE0&lang=en

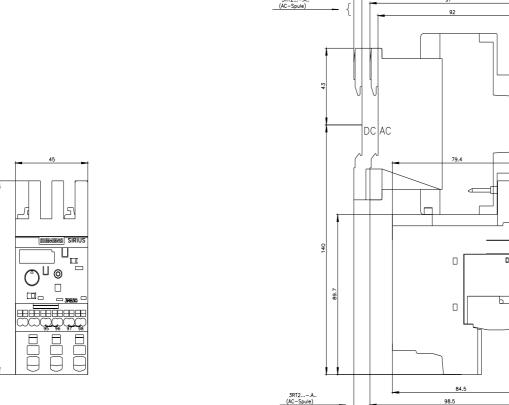
Characteristic: Tripping characteristics, I2t, Let-through current

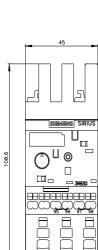
https://support.industry.siemens.com/cs/ww/en/ps/3RB3026-1RE0/char

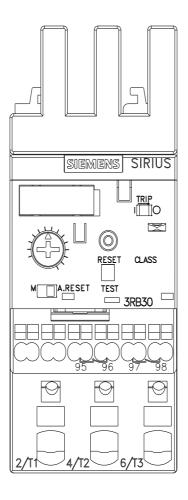
Further characteristics (e.g. electrical endurance, switching frequency)

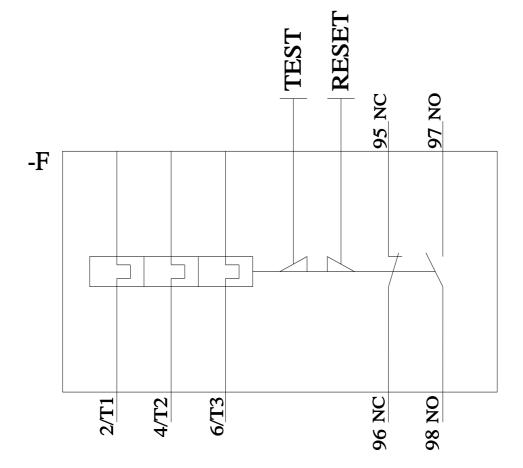
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3026-1RE0&objecttype=14&gridview=view1

102









last modified: 2/9/2022 🖸