SIEMENS

Data sheet 3RB3016-1TE0



Overload relay 4...16 A Electronic For motor protection Size S00, 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	S00
size of contactor can be combined company-specific	S00
power loss [W] for rated value of the current at AC in hot operating state	1.1 W
• per pole	0.37 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 protective separation 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
thermal current	16 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
SVHC substance name	Blei - 7439-92-1 Bleimonoxid (Bleioxid) - 1317-36-8
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	4 16 A
operating voltage	
rated value	690 V
 at AC-3e rated value maximum 	690 V

16 A	on exeting fraguency rated walve	50 60 H -
Section Sect	operating frequency rated value	50 60 Hz
Operation Control Co	•	
• for 2-phase motors at 400 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • for AC motors at 800 V at 50 Hz • note unumber of NC contacts for auxiliary contacts • note • no	•	16 A
For AC motors at 500 V at 50 Hz 311 kW		
Counting Cornel Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Counting Countin		
Auxiliary circuit design of the auxiliary switch number of NC contacts for auxiliary contacts * note note note note note note note note	 for AC motors at 500 V at 50 Hz 	
design of the auxillary switch indegrated number of NC contacts for auxillary contacts 1 number of NC contacts for auxillary contacts 1 e note for message "tripped" number of CO contacts for auxillary contacts 0 poperational current of auxillary contacts at AC-15 3 at 124 V 4 A at 1150 V 4 A at 125 V 4 A at 125 V 4 A at 126 V 4 A at 127 V 4 A at 128 V 3 A operational current of auxillary contacts at DC-13 2 A at 120 V 0.55 A at 110 V 0.3 A at 127 V 0.3 A at 128 V 0.3 A at 129 V 0.5 The trial publication tribudy a tribudy a publication 0.1 A at 120 V rated	for AC motors at 690 V at 50 Hz	3 11 kW
number of NC contacts for auxillary contacts 1 1 1 1 1 1 1 1 1	Auxiliary circuit	
• note for contactor disconnection number of NO contacts for auxiliary contacts 1	design of the auxiliary switch	integrated
number of NO contacts for auxiliary contacts	number of NC contacts for auxiliary contacts	1
• note	• note	for contactor disconnection
number of CO contacts for auxiliary contacts at AC-15	number of NO contacts for auxiliary contacts	1
a 24 \	• note	for message "tripped"
• at 24 V • at 110 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 125 V • at 60 V • at 110 V • at 125 V • at 126 V • at 12	number of CO contacts for auxiliary contacts	0
• at 24 V • at 110 V • at 120 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 125 V • at 60 V • at 110 V • at 125 V • at 126 V • at 12	operational current of auxiliary contacts at AC-15	
• at 120 V • at 125 V • at 125 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • 0.55 A • at 110 V • 0.3 A • at 220 V • 0.11 A Protective and monitoring functions trip class	•	4 A
• at 120 V • at 125 V • at 125 V • at 125 V • at 230 V operational current of auxiliary contacts at DC-13 • at 24 V • at 60 V • at 110 V • 0.55 A • at 110 V • 0.3 A • at 220 V • 0.11 A Protective and monitoring functions trip class	• at 110 V	4 A
• at 125 V • at 230 V • at 230 V • at 24 V • at 60 V • at 110 V • at 125 V • at 110 V • at 125 V • at 110 V • at 126 V • at 127 V • at 128 V •		
operational curvent of auxiliary contacts at DC-13 a 12 24 a 16 00 V b 15 5 A a 11 10 V c 12 C a 11 10 V c 12 C a 12 20 V c 11 12 0 V c 12 2 V c		
0 2 2 2 2 3 4 4 4 4 4 4 4 4 4		
• at 80 V • at 110 V • at 1125 V • at 1220 N • at 120 N •	•	2 A
• at 110 V • at 125 V • at 125 V • at 1220 V Protective and monitoring functions trip class design of the overload release ULICSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 800 V rated value • for short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit • prince dectrical connection • for main current circuit • for auxiliary and control circuit • spring-loaded terminals • for auxiliary and control circuit • prince dectrical connection of the auxiliary and control circuit • for auxiliary and control circuit • spring-loaded terminals • for auxiliary and control circuit • spring-loaded terminals • for auxiliary and control circuit • spring-loaded terminals • for auxiliary and control circuit • spring-loaded terminals • for auxiliary and control circuit • for auxiliary		
at 125 V at 220 V both to vertice and monitoring functions trip class CLASS 10E design of the overload release UIUCSA ratings In 6A a 160 V rated value		
• 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 3-phase AC motor • at 480 V rated value 16 A • at 600 V rated value 16 A contact rating of auxiliary contacts according to UL 8600 / R300 Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required gG: 50 A, RK5: 60 A — with type of assignment 2 required gG: 50 A, J: 60 A installation/ mounting/ dimensions mounting position any fastening method Contactor mounting width 45 mm depth 90 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit • for auxiliary and control circuit • for auxiliary and control circuit reper documentation rangement of electrical connectors for main current circuit (Lype of connectable conductor cross-sections for main current circuit vipe of connectable conductor cross-sections for main current circuit vipe of connectable conductor cross-sections for main current circuit vipe of connectable conductor cross-sections for main current circuit vipe of connectable conductor cross-sections for main current circuit vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vipe of connectable conductor cross-sections for main current (ricuit) vive of connectable conductor cross-sections for main current (
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trip class design of the overload release International Content (FLA) for 3-phase AC motor		U.11 A
design of the overload release electronic UL/CSA ratings full-load current (FLA) for 3-phase AC motor	-	
full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 16 A contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting fastening method Contactor mounting width 45 mm depth On m Connections/ Torminals product component removable terminal for auxiliary and control circuit type of electrical connection of or main current circuit of or auxiliary and control circuit spring-loaded terminals reargement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts o solid solid or stranded of inely stranded with core end processing 1 x (0.5 4 mm²) 1 x (0.5 2.5 mm²)	·	CLASS 10E
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• at 600 V rated value 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 — with type of assignment 2 required — for short-circuit protection of the auxiliary switch required for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required fustallation/ mounting/ dimensions mounting position fastening method Contactor mounting height 72 mm width depth 90 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing 1x (0.5 4 mm²) 1x (0.5 2.5 mm²)	full-load current (FLA) for 3-phase AC motor	
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Short-circuit protection design of the fuse link	at 600 V rated value	16 A
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mounting position any fastening method Contactor mounting height 72 mm width 45 mm depth 90 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing any Contactor mounting Any For mm Yes Yes Top and bottom 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 2.5 mm²)		fuse gG: 6 A
mounting position fastening method Contactor mounting height 72 mm width 45 mm depth 90 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing arrangement of electrical connectors for main contacts 1 x (0.5 4 mm²) 1 x (0.5 4 mm²) 1 x (0.5 2.5 mm²)	Installation/ mounting/ dimensions	
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depth 90 mm Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection		
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product component removable terminal for auxiliary and control circuit type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • solid • solid or stranded • finely stranded with core end processing Yes Yes Yes Yes Arrangement of electrical connection spring-loaded terminals Top and bottom 1 x (0.5 4 mm²) 1 x (0.5 4 mm²) 1 x (0.5 4 mm²)	<u> </u>	
type of electrical connection • for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • solid • solid or stranded • finely stranded with core end processing spring-loaded terminals Top and bottom Top and bottom 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 4 mm²)		Ves
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• for main current circuit • for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • solid • solid or stranded • finely stranded with core end processing spring-loaded terminals Top and bottom Top and bottom 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 2.5 mm²)	type of electrical connection	
 ◆ for auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts ◆ solid ◆ solid or stranded ◆ finely stranded with core end processing spring-loaded terminals Top and bottom 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 	•	spring-loaded terminals
arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded with core end processing Top and bottom 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 4 mm²)		
type of connectable conductor cross-sections for main contacts • solid 1x (0.5 4 mm²) • solid or stranded 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 2.5 mm²)	arrangement of electrical connectors for main current	
 solid solid or stranded finely stranded with core end processing 1x (0.5 4 mm²) 1x (0.5 4 mm²) 1x (0.5 2.5 mm²) 		
 solid or stranded finely stranded with core end processing 1x (0,5 4 mm²) 1x (0.5 2.5 mm²) 	**	1x (0.5 4 mm²)
• finely stranded with core end processing 1x (0.5 2.5 mm²)		
▼ milety attainate without core tha processing TX (0.0 2.0 mill)		
		1A (U.U 2.0 HIIII)
type of connectable conductor cross-sections		
for auxiliary contacts	■ 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)
 for 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
 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 61000-	
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
61000-4-5 • due to high-frequency radiation according to IEC 61000- 4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz

(P)

General Product Approval



Confirmation







EMC

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping











Confirmation

other

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RB3016-1TE0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3016-1TE0

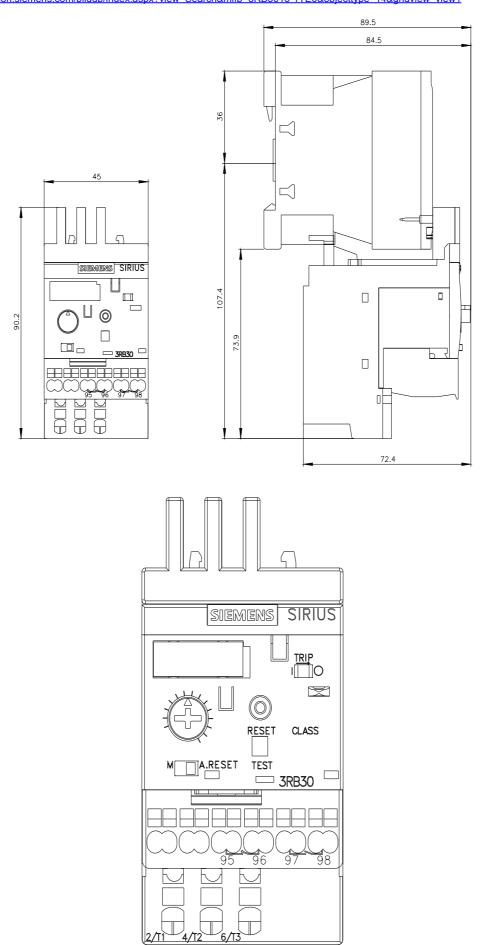
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

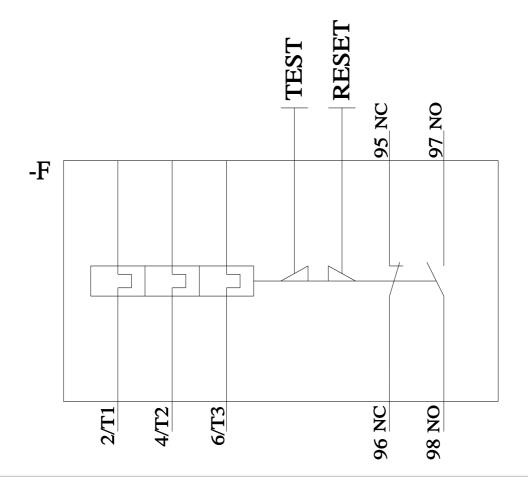
https://support.industry.siemens.com/cs/ww/en/ps/3RB3016-1TE0

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3016-1TE0&lang=en

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3016-1TE0&objecttype=14&gridview=view1





last modified: 9/5/2023 🖸