SIEMENS

Data sheet 3RB3123-4PB0



Overload relay 1...4 A Electronic For motor protection Size S0, Class 5...30 Contactor mounting Main circuit: Screw Auxiliary circuit: Screw Manual-Automatic-Reset Internal ground fault detection

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB3
General technical data	
size of overload relay	SO
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 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
vibration resistance	1-6 Hz, 15 mm; 6-500 Hz, 20 m/s ² ; 10 cycles
thermal current	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
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	1 4 A
operating voltage • rated value	690 V

e at AC.3c rated value maximum operating frequency rated value operational current rated value operating power • for 3-phase motors at 400 V at 50 Hz • of nAC motors at 500 V at 50 Hz • of nAC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz • for AC motors at 500 V at 50 Hz design of the auxillary switch number of NC contacts for auxiliary contacts • note • note • note for contactor disconnection number of NO contacts for auxiliary contacts • note • note • note operational current of auxiliary contacts • 1 • note operational current of auxiliary contacts at AC-15 • at 12 AV • at 11 DV • at 12 DV	for remote-reset function at DC	24 V
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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 fuse gG: 20 A • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method Contactor mounting height 87 mm width 45 mm depth 84 mm Connections/ Terminals product component removable terminal for auxiliary and Yes	at 600 V rated value	4 A
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fastening method height 87 mm width 45 mm depth Connections/ Terminals product component removable terminal for auxiliary and Yes	Installation/ mounting/ dimensions	
height 87 mm width 45 mm depth 84 mm Connections/ Terminals product component removable terminal for auxiliary and Yes	mounting position	any
width 45 mm depth 84 mm Connections/ Terminals product component removable terminal for auxiliary and Yes	fastening method	Contactor mounting
depth 84 mm Connections/ Terminals product component removable terminal for auxiliary and Yes	height	87 mm
Connections/ Terminals product component removable terminal for auxiliary and Yes	width	45 mm
product component removable terminal for auxiliary and Yes	depth	84 mm
	Connections/ Terminals	
control circuit	product component removable terminal for auxiliary and	Yes
	control circuit	
type of electrical connection	type of electrical connection	
• for main current circuit screw-type terminals	for main current circuit	screw-type terminals
• for auxiliary and control circuit screw-type terminals	for auxiliary and control circuit	screw-type terminals
arrangement of electrical connectors for main current Top and bottom	arrangement of electrical connectors for main current	Top and bottom

type of connectable conductor cross-sections for main contacts • solid • stranded • stranded • sid or stranded • finely stranded with core end processing • for auxillary contacts • solid — solid or stranded — solid stranded —	circuit	
solid stranded solid or stranded solid		
• stranded • solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - for AWC cables for auxiliary contacts - finely stranded with core end processing - for AWC cables for auxiliary contacts - for AWC cables for auxiliary contacts - for for AWC cables for auxiliary contacts - for AWC cables for auxiliary contacts - for for AWC cables for auxiliary contacts - for for AWC cables for auxiliary contacts - for for awc cables for auxiliary contacts with screw-type terminals - for for awc cables with screw-type terminals - for for awc cables with screw-type terminals - for auxiliary contacts with screw-type terminals - for awc cables with screw-type terminals - for awc auxiliary contacts - for main contacts - f	**	2x (1 2 5 mm²) 2x (2 5 10 mm²)
• solid or stranded • finely stranded with core end processing type of connectable conductor cross-sections • for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for AVIC cables for auxiliary contacts • for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts • for main contacts • for main contacts • for the auxiliary and control contacts • M4 • for main contacts • for auxiliary and control contacts • M3 Safety-related data Protection class IP 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 • ou to uch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Conducted interference • due to burst according to IEC 61000-4-5 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to burst according to IEC 61000-4-5 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-conductor surge a		
type of connectable conductor cross-sections • for auxiliary contacts — solid — solid of stranded with core end processing if type of connectable conductor cross-sections • for auxiliary contacts — solid of stranded — solid of stranded with core end processing • for AWG cables for auxiliary contacts • for WG cables for auxiliary contacts • for main contacts with screw-type terminals • for or auxiliary contacts with screw-type terminals • for winn contacts • for the auxiliary contacts with screw-type terminals • for for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type te		
• for auxiliary contacts • for auxiliary contacts — solid		
• for auxiliary contacts — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts 1x (0.5 4 mm²), 2x (0.5 2,5 mm²) • for AWG cables for auxiliary contacts 1x (2.0 14), 2x (2.0 14) tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts • for auxiliary and control contacts M3 Safety related data protection class IP on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection on the front according to IEC 60529 Ip20 touch protection compatibility conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-conductor surge according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-5 • due to high-frequency radiation according to IEC 61000-4-3 • due to high-frequency radiation according to IEC 61000-4-3 • due to high-frequence according to IEC 61000-4-3 •	·	1X (1 0 11111), 2 X (1 0 11111), 1X 10 11111
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- solid or stranded		1x (0.5 4 mm²) 2x (0.5 2.5 mm²)
- finely stranded with core end processing • for AWG cables for auxiliary contacts 1x (20 14), 2x (20 14) 1x (20 14) 1x (20 14), 2x (20 14) 1x (20		
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e for main contacts with screw-type terminals e for auxiliary contacts with screw-type terminals 0.8 1.2 N·m design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw e for main contacts M4 e of the auxiliary and control contacts M3 Sefety related data protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 touch protection on the front according to IEC 60529 type of voltage supply via input/output link master e due to burst according to IEC 61000-4-4 e due to conductor-earth surge according to IEC 61000-4-5 e due to conductor-conductor surge according to IEC 61000-4-5 e due to high-frequency radiation according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 display version for switching status Slide switch Slide switch Slide switch		
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61000-4-5	• due to conductor-earth surge according to IEC 61000-4-5	2 kV (line to earth) corresponds to degree of severity 3
4-6 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2 Display display version for switching status 10 V/m 6 kV contact discharge / 8 kV air discharge Slide switch		1 kV (line to line) corresponds to degree of severity 3
electrostatic discharge according to IEC 61000-4-2 6 kV contact discharge / 8 kV air discharge Display display version for switching status Slide switch		10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
Display display version for switching status Slide switch	field-based interference according to IEC 61000-4-3	10 V/m
display version for switching status Slide switch	electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
14,1,111	Display	
Certificates/ approvals	display version for switching status	Slide switch
	Certificates/ approvals	





Confirmation







EMC

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Special Test Certific-<u>ate</u>

Type Test Certificates/Test Report



Marine / Shipping











Confirmation

other

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=3RB3123-4PB0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3123-4PB0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB3123-4PB0

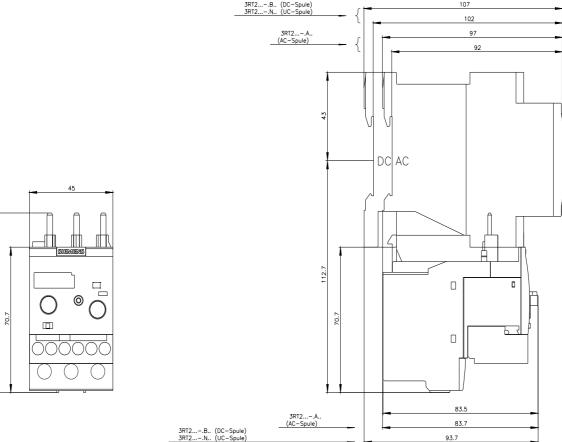
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RB3123-4PB0&lang=en

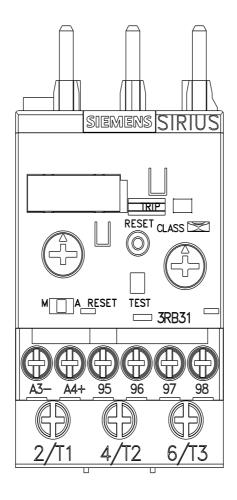
Characteristic: Tripping characteristics, I²t, Let-through current

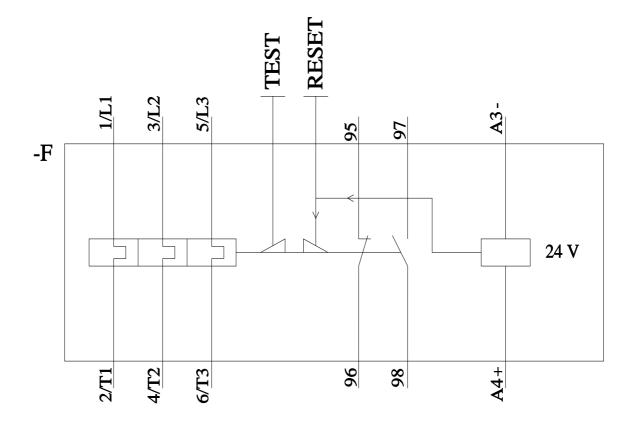
https://support.industry.siemens.com/cs/ww/en/ps/3RB3123-4PB0/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB3123-4PB0&objecttype=14&gridview=view1



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last modified:

9/5/2023