## SIEMENS

## Data sheet

## 3RB3123-4QB0



Overload relay 6...25 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	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	1.2 W
• per pole	0.4 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	
<ul> <li>in networks with ungrounded star point between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>in networks with grounded star point between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>in networks with ungrounded star point between main and auxiliary circuit</li> </ul>	600 V
<ul> <li>in networks with grounded star point between main and auxiliary circuit</li> </ul>	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	25 A
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	10/01/2009
SVHC substance name	Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-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	6 25 A
operating voltage	
rated value	690 V
<ul> <li>for remote-reset function at DC</li> </ul>	24 V

• at AC-3e rated value maximum	690 V
operating frequency rated value	50 60 Hz
operational current rated value	25 A
operational current at AC-3e at 400 V rated value	25 A
operating power	
<ul> <li>for 3-phase motors at 400 V at 50 Hz</li> </ul>	3 11 kW
• for AC motors at 500 V at 50 Hz	4 15 kW
• for AC motors at 690 V at 50 Hz	5.5 22 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	4A
• at 120 V	4 A
• at 125 V	4A
• at 125 V • at 230 V	3A
	38
operational current of auxiliary contacts at DC-13 ● at 24 V	2 A
• at 24 V • at 60 V	0.55 A
• at 100 V	0.3 A
• at 125 V	0.3 A
• at 125 V • at 220 V	
	0.11 A
Protective and monitoring functions	
trip class	CLASS 5E, 10E, 20E and 30E adjustable
design of the overload release	electronic
response value current of the grounding protection minimum	0.75 x IMotor
where the state of the supervision must stick in solution of the	1,000 mg
response time of the grounding protection in settled state	1 000 ms
response time of the grounding protection in settled state operating range of the grounding protection relating to current set value	1 000 ms
operating range of the grounding protection relating to	1 000 ms IMotor > lower current setting value
operating range of the grounding protection relating to current set value	
operating range of the grounding protection relating to current set value • minimum	IMotor > lower current setting value
operating range of the grounding protection relating to current set value • minimum • maximum	IMotor > lower current setting value
operating range of the grounding protection relating to current set value • minimum • maximum UL/CSA ratings	IMotor > lower current setting value
operating range of the grounding protection relating to current set value • minimum • maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor	IMotor > lower current setting value IMotor < upper current setting value x 3.5
operating range of the grounding protection relating to current set value • minimum • maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A
operating range of the grounding protection relating to current set value • minimum • maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A
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operating range of the grounding protection relating to current set value • minimum • maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value 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	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A
operating range of the grounding protection relating to current set value • minimum • maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A gG: 63 A, J: 100 A
operating range of the grounding protection relating to current set value         • minimum         • maximum         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         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         • for short-circuit protection of the auxiliary switch required	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A
operating range of the grounding protection relating to current set value         • minimum         • maximum         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         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         • for short-circuit protection of the auxiliary switch required	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A gG: 63 A, J: 100 A fuse gG: 6 A
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operating range of the grounding protection relating to current set value         • minimum         • maximum         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A gG: 63 A, J: 100 A fuse gG: 6 A any Contactor mounting
operating range of the grounding protection relating to current set value         • minimum         • maximum         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • 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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A gG: 63 A, J: 100 A fuse gG: 6 A any
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operating range of the grounding protection relating to current set value         • minimum         • maximum         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300
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operating range of the grounding protection relating to current set value         • minimum         • maximum         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A gG: 63 A, J: 100 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm Yes
operating range of the grounding protection relating to current set value      minimum     maximum UL/CSA ratings full-load current (FLA) for 3-phase AC motor     at 480 V rated value     at 600 V rated value     at 600 V rated value     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     for short-circuit protection of the auxiliary switch required Installation/mounting/ dimensions mounting position fastening method height width depth Connections/ Terminals product component removable terminal for auxiliary and control circuit type of electrical connection     for main current circuit	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A gG: 63 A, J: 100 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm Yes screw-type terminals
operating range of the grounding protection relating to current set value         • minimum         • maximum         UL/CSA ratings         full-load current (FLA) for 3-phase AC motor         • at 480 V rated value         • at 600 V rated value         • at 600 V rated value         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         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         height         width         depth         Connections/ Terminals         product component removable terminal for auxiliary and control circuit         type of electrical connection	IMotor > lower current setting value IMotor < upper current setting value x 3.5 25 A 25 A 25 A B600 / R300 gG: 125 A, RK5: 100 A gG: 63 A, J: 100 A fuse gG: 6 A any Contactor mounting 87 mm 45 mm 84 mm Yes

If or auxiliary contacts       I: (0.5 4 mm?), 2x (0.5 2.5 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 2.5 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 2.5 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 1.5 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 1.5 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 1.5 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 1.5 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 4 mm?), 2x (0.5 4 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 4 mm?), 2x (0.5 4 mm?)         Image: Standed with core of processing       I: (0.5 4 mm?), 2x (0.5 4 mm?)
<ul> <li>- solid</li> <li>1x (0.5 4 nm<sup>2</sup>), 2x (0.5 2.5 nm<sup>2</sup>)</li> <li>1x (0.5 4 nm<sup>2</sup>), 2x (0.5 2.5 nm<sup>2</sup>)</li> <li>1x (0.5 4 nm<sup>2</sup>), 2x (0.5 2.5 nm<sup>2</sup>)</li> <li>1x (20 14), 2x (20 14)</li> <li>tightening torque</li> <li>• for auxiliary contacts</li> <li>1x (20 14), 2x (20 14)</li> <li>tightening torque</li> <li>• for auxiliary contacts with screw-type terminals</li> <li>0.8 1.2 Nm</li> <li>0.8 1.2 Nm</li> <li>design of screwdriver shaft</li> <li>Diameter 5 to 6 mm</li> <li>size of the screwdriver shaft</li> <li>Diameter 5 to 6 mm</li> <li>size of the connection screw</li> <li>• for auxiliary contacts</li> <li>M4</li> <li>• of auxiliary and control contacts</li> <li>M3</li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection contact from the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection on the front according to IEC 60529</li> <li>IP20</li> <li>touch protection cont be forth according to IEC 60529</li> <li>IV (power ports), 1 kV (signal ports) corresponds to degree of severity 3</li> <li>1 kV (line to arth) corresponds to degree of severity 3</li> <li>1 kV (line to arth) corresponds to degree of severity 3</li> <li>1 kV (line to line) corresponds to degree of severity 3</li> <li>1 kV (line to line) corresponds to degree of severity 3</li> <li>1 kV (line to line) corresponds to degree of severity 3</li> <li>1 kV (line to line) corresponds to degree of severity 3</li> <li>1 kV (line to line) corresponds to degree of severity 3</li> <li>1 kV (line to line) corresponds to d</li></ul>
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 4 mm²), 2x (0.5 1.5 mm²)         finely stranded with core end processing       1x (0.5 4 mm²), 2x (0.5 1.5 mm²)         for AWG cables for auxiliary contacts       1x (20 14), 2x (20 14)         tightening torque       -         for main contacts with screw-type terminals       0.8 12 Nm         design of screwdriver shaft       Diameter 5 to 6 mm         size of the screwdriver shaft       Diameter 5 to 6 mm         of the auxiliary contacts       M4         of the auxiliary and control contacts       M3         Electrical Safety       IP20         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 6000-4.5       No         electromagnetic compatibility       Communication/ Protocol         type of voltage supply via input/output link master       No         Electromagnetic compatibility       Conductor-conductor surge according to IEC 61000-4.4       2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3         due to burst according to IEC 61000-4.4
solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²) solid or stranded1x (0.5 4 mm²), 2x (0.5 2.5 mm²) finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 2.5 mm²) finely stranded with core end processing1x (0.5 4 mm²), 2x (0.5 1.5 mm²)• for AWG cables for auxiliary contacts1x (20 14), 2x (20 14)tightening torque•• for main contacts with screw-type terminals0.8 12 N·m• for auxiliary contacts with screw-type terminals0.8 12 N·mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv PZ 2design of the thread of the connection screw•• for main contactsM4• of the auxiliary and control contactsM3Electrical SafetyFro20protection class IP on the front according to IEC 60529IP20touch protection on the front according to IEC 60529Ip20touch protection class IP on the front according to IEC 60529Ip20touch protection class IP on the front according to IEC 60529Ip20touch protection class IP on the front according to IEC 60529Ip20touch protection on the front according to IEC 61000-4.42 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3• due to conductor-earth surge according to IEC 61000-4.52 kV (line to arth) corresponds to degree of severity 3• due to conductor-conductor surge according to IEC 61000-4.510 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz• due to tondy-frequency radiation according to IEC 610
<ul> <li>- solid</li> <li>1x (0.5 4 mm²), 2x (0.5 2.5 mm²)</li> <li>- solid or stranded</li> <li>1x (0.5 4 mm²), 2x (0.5 2.5 mm²)</li> <li>- finely stranded with core end processing</li> <li>1x (0.5 4 mm²), 2x (0.5 1.5 mm²)</li> <li>• for AWG cables for auxiliary contacts</li> <li>1x (20 14), 2x (20 14)</li> <li>tightening torque</li> <li>• for main contacts with screw-type terminals</li> <li>0.8 1.2 N·m</li> <li>design of screwdriver shaft</li> <li>Diameter 5 to 6 mm</li> <li>size of the screwdriver tip</li> <li>Pozidriv PZ 2</li> <li>design of the thread of the connection screw</li> <li>• for the auxiliary and control contacts</li> <li>M4</li> <li>• of the auxiliary and control contacts</li> <li>M3</li> <li>Electrical Safety</li> <li>protection on the front according to IEC 60529</li> <li>fouch protection on the front according to IEC 60529</li> <li>fouch protection on the front according to IEC 60529</li> <li>forger-safe, for vertical contact from the front</li> <li>Communication/ Protocol</li> <li>type of voltage supply via input/output link master</li> <li>due to burst according to IEC 61000-4-4</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-earth surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> <li>due to bigh-frequency radiation according to IEC 61000-</li> <li>10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz</li> </ul>
solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²) solid or stranded1x (0,5 4 mm²), 2x (0,5 2,5 mm²) finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) finely stranded with core end processing1x (20 14), 2x (20 1.5 mm²) for AWG cables for auxiliary contacts1x (20 14), 2x (20 14)tightening torque
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solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²) solid or stranded1x (0,5 4 mm²), 2x (0,5 2,5 mm²) finely stranded with core end processing1x (0,5 4 mm²), 2x (0,5 2,5 mm²)• for AWG cables for auxiliary contacts1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for auxiliary contacts1x (20 14), 2x (20 14)tightening torque2 2.5 N·m• for main contacts with screw-type terminals0.8 1.2 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv PZ 2
solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²) solid or stranded1x (0,5 4 mm²), 2x (0,5 2,5 mm²) finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for auxiliary contacts1x (20 14), 2x (20 14)tightening torque1x (20 14), 2x (20 14)• for main contacts with screw-type terminals2 2.5 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·mdesign of screwdriver shaftDiameter 5 to 6 mm
solid1x (0.5 4 mm²), 2x (0.5 2.5 mm²) solid or stranded1x (0,5 4 mm²), 2x (0,5 2,5 mm²) finely stranded with core end processing1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)• for AWG cables for auxiliary contacts1x (20 14), 2x (20 14)tightening torque2 2.5 N·m• for main contacts with screw-type terminals2 2.5 N·m• for auxiliary contacts with screw-type terminals0.8 1.2 N·m
— 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 4 mm²), 2x (0.5 1,5 mm²)         • for AWG cables for auxiliary contacts       1x (0.5 1,2,5 mm²)
— 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)
solid 1x (0.5 4 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )
· · · · · · · · · · · · · · · · · · ·
for auxiliary contacts
type of connectable conductor cross-sections
• finely stranded with core end processing 1x (1 6 mm <sup>2</sup> ), 2 x (1 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup>
• solid or stranded 1x (1 10 mm <sup>2</sup> ), 2x (1 10 mm <sup>2</sup> )
• stranded 2x 10 mm <sup>2</sup>
<ul> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> </ul>

Further information

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=3RB3123-4QB0

Cax online generator

87.3 70.7

 $\square$ 

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB3123-4QB0

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

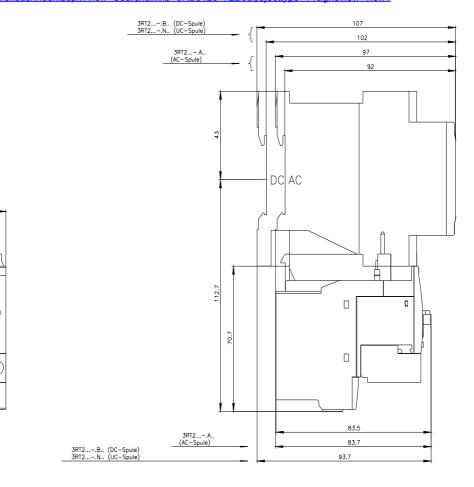
https://support.industry.siemens.com/cs/ww/en/ps/3RB3123-4QBC

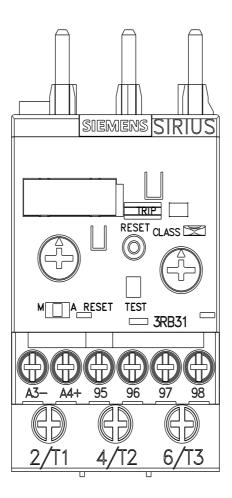
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB3123-4QB0&lang=en

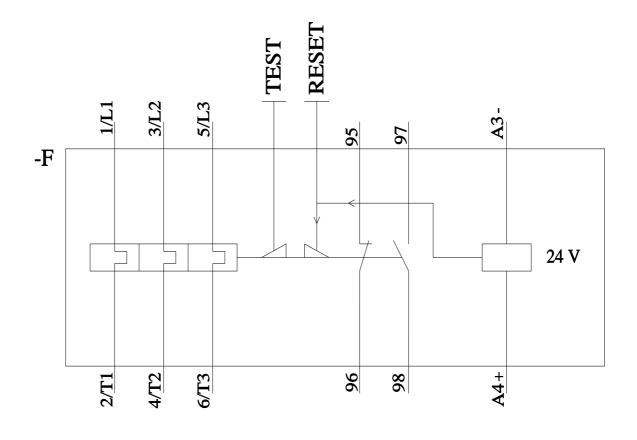
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RB3123-4QB0/char Further characteristics (e.g. electrical endurance, switching frequency)

earch&mlfb=3RB3123-4QB0&objecttype=14&gridview=view1 http://www.automation.siemens.com/bilddb/index.aspx?view=S







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