## **SIEMENS**

Data sheet 3RB2056-1FC2



Overload relay 50...200 A for motor protection Size S6, Class 10E Contactor mounting/stand-alone installation Main circuit: busbar connection Auxiliary circuit: Screw terminal Manual-Automatic-Reset

product brand name	SIRIUS
product designation	solid-state overload relay
product type designation	3RB2
General technical data	
size of overload relay	S6
size of contactor can be combined company-specific	S6
insulation voltage with degree of pollution 3 at AC rated value	1 000 V
surge voltage resistance rated value	8 kV
maximum permissible voltage for protective separation in networks with grounded star point	
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between auxiliary and auxiliary circuit</li> </ul>	300 V
<ul> <li>between main and auxiliary circuit</li> </ul>	600 V
between main and auxiliary circuit	690 V
shock resistance	15g / 11 ms
shock resistance according to IEC 60068-2-27	15g / 11 ms
thermal current	200 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 06 ATEX 3001
reference code according to IEC 81346-2	F
Substance Prohibitance (Date)	07/01/2006
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	
<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	50 200 A
operating voltage	
• rated value	4.000 \
	1 000 V
at AC-3e rated value maximum	1 000 V 1 000 V
at AC-3e rated value maximum     operating frequency rated value	

operations current at AC-2e at 400 V rated value         200 A           operating power         of 3-shase motions at 400 V at 90 Hz         30 90 kW           A For AC motions at 800 V at 50 Hz         30 132 kW           A For AC motions at 800 V at 50 Hz         55 180 kW           Amount of The curritian y feature         integrated           a marker of NC contacts for auxiliary contacts         integrated           • note         1           • note of CO contacts for auxiliary contacts         1           • note of TO contacts for auxiliary contacts at AC-15         4 A           • at 24 V         4 A           • at 110 V         4 A           • at 120 V         4 A           • at 220 V         2 A           • at 320 V         3 A           • at 110 V         4 A           • at 220 V         0.05 A           • at 120 V         4 A           • at 220 V         0.03 A           • at 320 V         0.03 A           • at 300 V rated value         200 A		
For A James motors at 400 v at 50 Hz	operational current at AC-3e at 400 V rated value	200 A
For AC motors at 500 V at 50 Hz   50 132 kW	operating power	
Fig. 100 AW   AC motors at 600 V at 50 Hz   AC motors at 600 V a	<ul> <li>for 3-phase motors at 400 V at 50 Hz</li> </ul>	30 90 kW
More and the auxiliary switch   more of the auxiliary contacts	<ul> <li>for AC motors at 500 V at 50 Hz</li> </ul>	30 132 kW
design of the auxillary awrich number of NC contacts for auxillary contacts  • note •	• for AC motors at 690 V at 50 Hz	55 160 kW
-	Auxiliary circuit	
*   1	design of the auxiliary switch	integrated
- note   for contactor disconnection	number of NC contacts for auxiliary contacts	
	•	1
• note number of CO contacts for auxiliary contacts 0 operational current of auxiliary contacts at AC-15	• note	for contactor disconnection
note   for message "tipped"	number of NO contacts for auxiliary contacts	
Operational current of auxillary contacts at AC-15	•	1
a   12 4 V   4 A     a   11 10 V   4 A     a   11 20 V   4 A     a   11 20 V   4 A     a   11 20 V   4 A     a   12 5 V     a   12 5 V     a   12 5 V     a   12 5 V     a   16 0 V   0.55 A     a   11 10 V     a   11 10 V   0.3 A     a   12 12 V     a   16 0 V   0.55 A     a   11 10 V   0.3 A     a   12 20 V   0.11 A     a   12 20 V   0.11 A     a   12 20 V   0.11 A     a   12 5 V   0.3 A     a   12 20 V   0.11 A     rotestive and monitoring functions  trip class   design of the overload release   electronic    UDICSA ratings     full-load current (FLA) for 3-phase AC motor     a   14 80 V   7 ated value   200 A     a   1600 V rated value   200 A     a   1600 V rated value   200 A     a   1600 V rated value   200 A     b   0 or short-circuit protection of the main circuit     - with type of coordination 1 required   96: 315 A     a   0 or short-circuit protection of the main circuit     - with type of coordination 1 required   96: 315 A     a   0 or short-circuit protection of the main circuit     - with type of coordination 1 required   96: 315 A     a   15 0 mm     a   15 0 mm     depth   15 0 mm     depth   15 0 mm     depth   15 0 mm     depth   15 0 mm     a   17 0 mm     depth   1		
• at 124 V	<u> </u>	0
• al 110 V	-	
• 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 • at 125 V • at 110 V • at 125 V • at 125 V • at 125 V • at 125 V • at 220 V  O.11 A  Protective and monitoring functions  trip class  CLASS 10E  design of the overload release  UL/CSA ratings  Ifful-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value • at 600 V rated value  ontact 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 • of for short-circuit protection of the auxiliary switch required installation/mounting/dimensions  mounting position fastening method height  installation/mounting/dimensions  mounting position fastening method height  installation/mounting/dimensions  product component removable terminal for auxiliary and control circuit  type of olectrical connection • for main current circuit  very of olectrical connection • for main current circuit  very of connectable conductor cross-sections • for auxiliary contacts  - soild - soild or stranded - finely stranded with core end processing  i x(0.5 4 mm²), 2x(0.5 2.5 mm²)  2x (20 1.5 mm²), 2x (0.5 2.5 mm²)  2x (20 1.5 mm²), 2x (0.5 1.5 mm²)  - for AWNG cables for auxiliary contacts - for finely stranded with core end processing - for AWNG cables for auxiliary contacts - for AWNG cables for auxiliar		
• at 125 ∨ • at 125 ∪ • at 125 ∪ • at 125 ∪ • at 125 ∪ • at 124 ∨ • at 160 ∨ • at 110 ∨ • at 125 ∨ • at 125 ∨ • at 125 ∨ • at 126 ∨ • at 126 ∨ • at 126 ∨ • at 125 ∨		
• at 230 ∨ operational current of auxiliary contacts at DC-13 • at 24 ∨  • at 60 ∨ 0.55 A  • at 110 ∨ 0.3 A  • at 125 ∨ 0.3 A  • at 125 ∨ 0.3 A  • at 125 ∨ 0.4 Contacts and monitoring functions  trip class  CLASS 10E design of the overload release electronic  ULGSA ratings  full-load current (FLA) for 3-phase AC motor • at 460 ∨ rated value 200 A  • at 600 ∨ rated value 200 A  • for short-circuit protection of the main circuit 4  — with type of coordination 1 required 26 sign of the five link 200 × 3.55 A, Class L: 601 A  4 gG: 355 A, Class L: 601 A  4 gG:		
0   2   2   2   2   3   2   4   4   3   4   4   4   4   4   4   4	****	
• at 24 V • at 60 V • at 110 V • at 110 V • at 125 V • at 126 V • at 126 V • at 126 V • at 127 V • at 127 V • at 128 V •		3 A
at 160 V at 110 V at 125 V at 125 V at 220 V  cat 220 C  cat 220		
• at 110 V • at 125 V • at 1220 V 0.11 A  Protective and monitoring functions  trip class CLASS 10E  design of the overload release  out 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 hype 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 mounting dimensions  product component removable terminal for auxiliary and • for main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for fauxiliary contacts • for auxiliary cont		
at 125 V at 220 V brotective and monitoring functions  trip class CLASS 10E design of the overload release  electronic  ULICSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 200 A at 600 V rated value 200 A book rations  for short-circuit protection of the main circuit with type of coordination 1 required with type of coordination 1 required and fastening method fastening method fastening method fleight full-dad current (FLA) for 3-phase AC motor  at 800 V rated value 200 A		
• at 220 V  Protective and monitoring functions  trip class  design of the overload release  protections  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 oardination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of assignment 2 required — with type of condination 1 required — so reshort-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  mounting position  fastening method  depth  119 mm  depth  119 mm  depth  155 mm  Connections/ Torminals  Product component removable terminal for auxiliary and control circuit  • for main current circuit  • for favillary and control circuit  • for favillary candicts  — solid — solid or stranded — finely stranded with core end processing  • for AWG cables for auxiliary contacts		
Protective and monitoring functions  trip class CLASS 10E  design of the overload release electronic  UUCSA ratings  full-load current (FLA) for 3-phase AC motor		
trip class design of the overload release electronic    CLASS 10E		U.11 A
design of the overload release electronic  ULCSA ratings  full-load current (FLA) for 3-phase AC motor		01.400.405
full-load current (FLA) for 3-phase AC motor	<u> </u>	
full-load current (FLA) for 3-phase AC motor		electionic
at 480 V rated value at 600 V rated value 200 A		
e 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		200 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 — of ror short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position  fastening method — Contactor mounting/stand-alone installation height — 119 mm  width — 120 mm  depth — 155 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  screw-type terminals  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections — for auxiliary contacts — solid — solid or stranded — solid or stranded — finely stranded with core end processing — for AWG cables for auxiliary contacts — 2x (20 14)		
Short-circuit protection  design of the fuse link		
design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required gG: 355 A, Class L: 601 A gG: 315 A for short-circuit protection of the auxiliary switch required gG: 315 A fuse gG: 315		500077000
• for short-circuit protection of the main circuit  — with type of coordination 1 required — with type of assignment 2 required 9G: 355 A, Class L: 601 A 9G: 315 A  • 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  type of connectable conductor cross-sections • for auxiliary contacts  • solid — solid — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts  2 x (20 14)		
- with type of coordination 1 required - with type of assignment 2 required 9G: 315 A  • for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 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 auxiliary contacts - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  2G: 315 A fuse G: 315 A		
- with type of assignment 2 required of for short-circuit protection of the auxiliary switch required fuse gG: 315 A fuse gG: 6 A  Installation/ mounting/ dimensions  mounting position fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection of or auxiliary and control circuit arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections of or auxiliary contacts solid solid or stranded finely stranded with core end processing of for AWG cables for auxiliary contacts 2x (20 14)	•	gG: 355 A. Class I: 601 A
• for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions  mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit or for auxiliary and control circuit surrangement of electrical connectors for main current circuit arrangement of electrical connectors  • for auxiliary and control circuit surrangement of electrical connectors for main current circuit surrangement of electrical connectors for		
mounting position any fastening method Contactor mounting/stand-alone installation height 119 mm width 120 mm depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection • for auxiliary and control circuit screw-type terminals  arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for auxiliary contacts  - solid 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) • for AWG cables for auxiliary contacts 2x (20 14)		
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fastening method  height  119 mm  width  120 mm  depth  155 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 auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts  2x (20 14)		any
height 119 mm  width 120 mm  depth 155 mm  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection		·
width 120 mm  depth 155 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 auxiliary contacts  — solid — solid or stranded — solid or stranded with core end processing • for AWG cables for auxiliary contacts  • for AWG cables for auxiliary contacts  2x (20 14)		-
depth 155 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 auxiliary contacts  - solid  - solid or stranded  - finely stranded with core end processing  • for AWG cables for auxiliary contacts  2 x (20 14)		
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 auxiliary contacts  — solid  — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  2		155 mm
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 auxiliary contacts  - solid - solid or stranded - finely stranded with core end processing  • for AWG cables for auxiliary contacts  2x (20 14)	·	
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 auxiliary contacts  — solid — solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (20 14)		Yes
<ul> <li>for main current circuit</li> <li>for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>− solid</li> <li>− solid or stranded</li> <li>− finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>2x (20 14)</li> <li>busbar connection</li> <li>screw-type terminals</li> <li>Top and bottom</li> <li>1x (0.5 4 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 4 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²)</li> <li>2x (20 14)</li> </ul>		
<ul> <li>◆ for auxiliary and control circuit</li> <li>arrangement of electrical connectors for main current circuit</li> <li>type of connectable conductor cross-sections</li> <li>◆ for auxiliary contacts</li> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>◆ for AWG cables for auxiliary contacts</li> </ul> 1x (0.5 4 mm²), 2x (0.5 2.5 mm²) 1x (0.5 2.5 mm²), 2x (0.5 2.5 mm²) 2x (20 1.5 mm²) 2x (20 14)		
arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for auxiliary contacts  — solid — solid or stranded — solid or stranded — finely stranded with core end processing • for AWG cables for auxiliary contacts  2x (20 14)		
type of connectable conductor cross-sections  • for auxiliary contacts  — solid — 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)  • for AWG cables for auxiliary contacts 2x (20 14)		
<ul> <li>for auxiliary contacts         <ul> <li>— solid</li> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>1x (0.5 4 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>		l op and bottom
— 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)         • for AWG cables for auxiliary contacts       2x (20 14)	type of connectable conductor cross-sections	
<ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>1x (0.5 4 mm²), 2x (0.5 2.5 mm²)</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>	• for auxiliary contacts	
<ul> <li>— finely stranded with core end processing</li> <li>1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)</li> <li>2x (20 14)</li> </ul>	— solid	
• for AWG cables for auxiliary contacts 2x (20 14)		
·	<ul> <li>finely stranded with core end processing</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)
tightening torque	<u> </u>	2x (20 14)
	tightening torque	

<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 12 N·m
for auxiliary contacts with screw-type terminals	0.8 1.2 N·m
design of the thread of the connection screw	
• for main contacts	M8
of the auxiliary and control contacts	M3
Electrical Safety	
protection class IP on the front according to IEC 60529	IP00; IP20 with box terminal/cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with box terminal/cover
Communication/ Protocol	
type of voltage supply via input/output link master	No
Electromagnetic compatibility	
conducted interference	
<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV (power ports), 1 kV (signal ports) corresponds to degree of severity 3
<ul> <li>due to conductor-earth surge according to IEC 61000-4-5</li> </ul>	2 kV (line to earth) corresponds to degree of severity 3
<ul> <li>due to conductor-conductor surge according to IEC 61000-4-5</li> </ul>	1 kV (line to line) corresponds to degree of severity 3
<ul> <li>due to high-frequency radiation according to IEC 61000- 4-6</li> </ul>	10 V in frequency range 0.15 to 80 MHz, modulation 80 % AM with 1 kHz
field-based interference according to IEC 61000-4-3	10 V/m
electrostatic discharge according to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Display	
display version for switching status	Slide switch
Approvals Certificates	

**General Product Approval** 







Confirmation





**General Product Ap**proval

**EMV** 

For use in hazardous locations

**Test Certificates** 





<u>KC</u>



Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping









Confirmation

other

**Miscellaneous** 

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=3RB2056-1FC2

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RB2056-1FC2

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

https://support.industry.siemens.com/cs/ww/en/ps/3RB2056-1FC

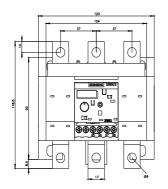
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

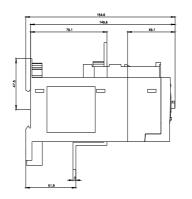
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RB2056-1FC2&lang=en

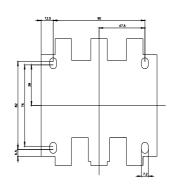
Characteristic: Tripping characteristics, I2t, Let-through current

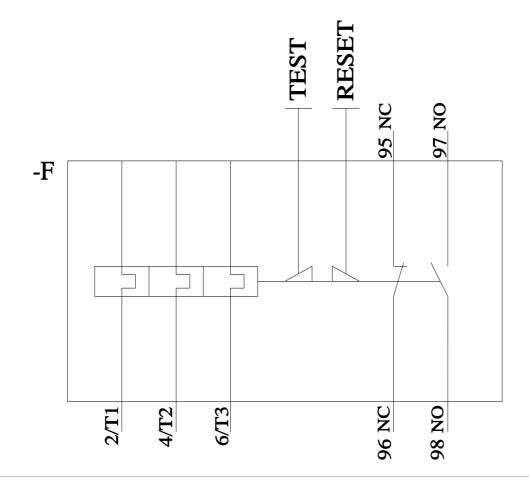
https://support.industry.siemens.com/cs/ww/en/ps/3RB2056-1FC2/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2056-1FC2&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RB2056-1FC2&objecttype=14&gridview=view1</a>









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