## **SIEMENS**

Data sheet 3RV2021-0GA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 0.45...0.63 A N-release 8.2 A screw terminal Standard switching capacity

product brand name	SIRIUS	
product designation	Circuit breaker	
design of the product	For motor protection	
product type designation	3RV2	
General technical data		
size of the circuit-breaker	S0	
size of contactor can be combined company-specific	S00, S0	
product extension auxiliary switch	Yes	
power loss [W] for rated value of the current		
<ul> <li>at AC in hot operating state</li> </ul>	7.25 W	
<ul> <li>at AC in hot operating state per pole</li> </ul>	2.4 W	
insulation voltage with degree of pollution 3 at AC rated value	690 V	
surge voltage resistance rated value	6 kV	
shock resistance according to IEC 60068-2-27	25g / 11 ms	
mechanical service life (operating cycles)		
<ul> <li>of the main contacts typical</li> </ul>	100 000	
<ul> <li>of auxiliary contacts typical</li> </ul>	100 000	
electrical endurance (operating cycles) typical	100 000	
type of protection according to ATEX directive 2014/34/EU	Ex II (2) GD	
certificate of suitability according to ATEX directive 2014/34/EU	DMT 02 ATEX F 001	
reference code according to IEC 81346-2	Q	
Substance Prohibitance (Date)	10/01/2009	
Ambient conditions		
installation altitude at height above sea level maximum	2 000 m	
ambient temperature		
<ul> <li>during operation</li> </ul>	-20 +60 °C	
during storage	-50 +80 °C	
<ul> <li>during transport</li> </ul>	-50 +80 °C	
relative humidity during operation	10 95 %	
Main circuit		
number of poles for main current circuit	3	
adjustable current response value current of the	0.45 0.63 A	
current-dependent overload release		
operating voltage		
rated value	20 690 V	
<ul> <li>at AC-3 rated value maximum</li> </ul>	690 V	
<ul> <li>at AC-3e rated value maximum</li> </ul>	690 V	
operating frequency rated value	50 60 Hz	
operational current rated value	0.63 A	

operations current	onerational current		
■ al AC-3e at 400 V rated value poperating power ■ al AC-3 ■ at 230 V rated value ■ at 400 V rated value ■ at 500 V rated value ■ at 600	operational current	0.63 Δ	
ear AC-25			
* at AC-3		0.00 A	
		0.1 kW	
- at 80% v rated value   0.3 kW   - at 80% v rated value   0.2 kW   - at 90% v rated value   0.2 kW   - at 90% v rated value   0.2 kW   - at 90% v rated value   0.3 kW   0.5	— at 400 V rated value	0.2 kW	
	— at 500 V rated value	0.2 kW	
at 230 V rated value	— at 690 V rated value	0.3 kW	
all 400 Y rated value	• at AC-3e		
at 500 V rated value at 690 V rated value 0,3 kW operating frequency • at AC-3 maximum • at AC-3 maximum 15 t/h  at AC-3	— at 230 V rated value	0.1 kW	
at 890 V rated value  • at AC-3 maximum  • at AC	— at 400 V rated value	0.2 kW	
operating frequency	— at 500 V rated value		
at AC-3 maximum at AC-3 emaximum  at AC-3 emaximum  Auxiliary circuit  number of NC contacts for auxiliary contacts number of CC contacts for auxiliary contacts  Protective and monitoring functions  Protection  100 kA		0.3 kW	
Auxiliary circuit number of NC contacts for auxiliary contacts  product function  - ground fault detection - ground fault detection - ground fault detection - yes - at AC at 240 V rated value - at AC at 240 V rated value - at AC at 240 V rated value - at AC at 500 V rated value - at 400 V rated value - at 400 V rated value - at 400 V rated value - at 500 V rated value - at 500 V rated value - at 600 V rated value - at 6			
Auxiliary circuit number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of CO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function  • ground fault detection • ground fault detection • ground fault detection  • phase fallure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 2400 V rated value • at AC at 500 V rated value • at 400 V rated value • at 600 V rated value • 603 A  Short-circuit protection  product function short circuit protection • at 450 V rated value • at 600 V rated value			
number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts on number of NC contacts for auxiliary contacts on number of NC contacts for auxiliary contacts on number of CO contacts for auxiliary contacts on number of CO contacts for auxiliary contacts on expectative and monitoring functions  product function  • ground fault detection Yes  class class class of the overload release the maximum short-circuit current breaking capacity (lcu)  • at AC at 240 V rated value 100 kA  • at AC at 400 V rated value 100 kA  • at AC at 4500 V rated value 100 kA  • at AC at 560 V rated value 100 kA  • at 400 V rated value 100 kA  • at 4500 V rated value 100 kA  • at 4500 V rated value 100 kA  • at 480 V rated value 100 kA  • at 480 V rated value 100 kA  • at 480 V rated value 100 kA  • at 600 V rated value 100 k		15 1/h	
number of NO contacts for auxiliary contacts number of CO contacts for auxiliary contacts product function			
Protective and monitoring functions  Protective and monitoring functions  product function  • ground fault detection  • phase failure detection  trip class  design of the overload release maximum short-circuit current breaking capacity (tcu)  • at AC at 240 V rated value  • at AC at 250 V rated value  • at AC at 550 V rated value  • at 400 V rated value  • at 400 V rated value  • at 500 V rated value  • at 500 V rated value  • at 600 V rate			
product function  product function  ground fault detection  product function  product function  product function  product function  product function  product function  product function fault detection  product function fault detection  product function fault detection  product function short circuit current breaking capacity (lcu)  product function short circuit current breaking capacity (lcu)  product function short circuit current breaking capacity (lcs)  product function short circuit function short circuit trip  product function short circuit function fastening method  product function short circuit function  product function short circuit			
product function  • ground fault detection  • provided fault detection  • provided fault detection  • provided fault detection  • provided fault detection  * provided parts at 400 V  - downwards  * provided parts at 400 V  - downwards		U	
• ground fault detection • phase failure detection trip class design of the overload release maximum short-circuit current breaking capacity (Icu) • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at 240 V rated value • at 240 V rated value • at 350 V rated value • at 500 V rated value • at 500 V rated value • at 600 V			
phase failure detection trip class cdosign of the overload release maximum short-circuit current breaking capacity (Icu)  at AC at 240 V rated value at AC at 400 V rated value 100 kA at AC at 500 V rated value 100 kA  at AC at 500 V rated value 100 kA  at AC at 400 V rated value 100 kA  operating short-circuit current breaking capacity (Ics) at AC at 240 V rated value 100 kA  at 400 V rated value 100 kA  at 400 V rated value 100 kA  at 400 V rated value 100 kA  at 500 V rated value 100 kA  at 500 V rated value 100 kA  at 600 V rated value 100 kA  set 500 V rated value 100 kA  set 500 V rated value 100 kA  set 600 V rated value 100 k	•	N	
trip class design of the overload release maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value 100 kA • at AC at 590 V rated value 100 kA • at AC at 590 V rated value 100 kA • at AC at 590 V rated value 100 kA • at AC at 590 V rated value 100 kA • at AC at 590 V rated value 100 kA • at 400 V rated value 100 kA • at 500 V rated value 100 kA • at 500 V rated value 100 kA • at 500 V rated value 100 kA • at 690 V rated value 100 kA • at 690 V rated value 100 kA  response value current of instantaneous short-circuit trip 100 kA • at 400 V rated value 100 kA • at 500 V rated value 100 kA  Pull-IOSA ratings  full-load current (FLA) for 3-phase AC motor • at 480 V rated value 0.63 A  Short-circuit protection  product function short circuit protection 490 kesign of the short-circuit trip 100 kB magnetic	_		
design of the overload release maximum short-circuit current breaking capacity (Icu)  at AC at 240 V rated value at AC at 490 V rated value 100 kA at AC at 690 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value 100 kA operating short-circuit current breaking capacity (Ics) at AC at 400 V rated value 100 kA at 400 V rated value 100 kA at 400 V rated value 100 kA at 500 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA at 690 V rated value 100 kA response value current of instantaneous short-circuit trip unit  ULICSA ratings full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.63 A short-circuit protection  product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions mounting position fastening method fastening method for installation/ mounting at the side of or grounded parts at 400 V — downwards 0 mm — at the side of live parts at 400 V — downwards 30 mm — at the side of live parts at 400 V — downwards 30 mm — at the side of live parts at 400 V — downwards 30 mm — downwards 30 mm			
maximum short-circuit current breaking capacity (Icu)  • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 6890 V rated value • at AC at 6890 V rated value • at AC at 6890 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 690 V rated value • at 890 V rated value • at 890 V rated value • at 690 V rated value • at 480 V rated value • at 690 V rated val	•		
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operating short-circuit current breaking capacity (Ics) at AC  • at 240 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value • at 690 V rated value  • at 690 V rated value    Interview   Inter	<ul> <li>at AC at 500 V rated value</li> </ul>	100 kA	
at AC  at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit  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 at 600 V rated value both of tircuit protection  product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions  mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height yor mm depth depth required spacing with side-by-side mounting at the side for grounded parts at 400 V downwards - upwards - at the side for live parts at 400 V - downwards	<ul> <li>at AC at 690 V rated value</li> </ul>	100 kA	
at 240 V rated value at 400 V rated value at 500 V rated value at 690 V rated value at 690 V rated value tesponse value current of instantaneous short-circuit trip unit   LU/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 690 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value be at 690 V rated value at 690 V rated value be a			
at 400 V rated value at 500 V rated value 100 kA to at 690 V rated value 100 kA sesponse value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 0.63 A at 600 V rated value 0.63 A Short-circuit protection  product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions  mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 97 mm width 45 mm depth vidth 45 mm depth required spacing  with side-by-side mounting at the side for grounded parts at 400 V - downwards - upwards - at the side for live parts at 400 V - downwards  30 mm  for live parts at 400 V - downwards		400   A	
at 500 V rated value at 690 V rated value response value current of instantaneous short-circuit trip unit  ULI/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value broad trunction short circuit protection product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions  mounting position fastening method  ary screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height width depth 97 mm width depth required spacing  with side-by-side mounting at the side for grounded parts at 400 V  - downwards - at the side for live parts at 400 V  - downwards			
at 690 V rated value response value current of instantaneous short-circuit trip unit  ### MIL/GSA ratings  full-load current (FLA) for 3-phase AC motor			
response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  • at 800 V rated value  product function short circuit protection  design of the short-circuit trip  magnetic  Installation/ mounting/ dimensions  mounting position fastening method  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height width 45 mm depth required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — at the side • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  30 mm  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  30 mm			
unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  product function short circuit protection  product function short circuit trip  product function short circuit trip  magnetic  Installation/ mounting/ dimensions  mounting position fastening method  any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height width 45 mm depth required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V  — downwards — at the side • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  30 mm  • for live parts at 400 V — downwards  30 mm			
full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value • at 600 V rated value  Droduct function short circuit protection  groduct function short circuit trip  magnetic  Installation/ mounting/ dimensions  mounting position fastening method  fastening method  any  60715  height  97 mm  width  depth  required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V  — downwards — at the side • for live parts at 400 V  — downwards — at the side • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  • for live parts at 400 V — downwards  30 mm		0.27	
at 480 V rated value at 600 V rated value broadcast function short circuit protection product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions  mounting position fastening method any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth required spacing  with side-by-side mounting at the side for grounded parts at 400 V  - downwards - upwards - at the side for live parts at 400 V - downwards - downwards  for live parts at 400 V - downwards	UL/CSA ratings		
o at 600 V rated value    Short-circuit protection	full-load current (FLA) for 3-phase AC motor		
Short-circuit protection  product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions  mounting position any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing  • with side-by-side mounting at the side of ror grounded parts at 400 V — downwards 30 mm — at the side 9 mm  • for live parts at 400 V — downwards 30 mm  • for live parts at 400 V — downwards 30 mm  • downwards 30 mm  • for live parts at 400 V — downwards 30 mm	<ul> <li>at 480 V rated value</li> </ul>	0.63 A	
product function short circuit protection design of the short-circuit trip magnetic  Installation/ mounting/ dimensions  mounting position any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height 97 mm width 45 mm depth 97 mm required spacing  • with side-by-side mounting at the side of grounded parts at 400 V  — downwards 30 mm — at the side 9 mm  • for live parts at 400 V — downwards 30 mm  • for live parts at 400 V — downwards 30 mm  • for live parts at 400 V — downwards 30 mm	<ul> <li>at 600 V rated value</li> </ul>	0.63 A	
Installation/ mounting/ dimensions  mounting position fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards  • for live parts at 400 V — downwards — at ownwards — at the side 9 mm	Short-circuit protection		
Installation/ mounting/ dimensions  mounting position fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height yor mm width 45 mm depth required spacing  with side-by-side mounting at the side for grounded parts at 400 V  downwards - upwards - at the side for live parts at 400 V  downwards  30 mm	·	Yes	
mounting position fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 97 mm width 45 mm depth 97 mm required spacing  with side-by-side mounting at the side for grounded parts at 400 V downwards - upwards - at the side for live parts at 400 V - downwards  30 mm		magnetic	
fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN  60715  height  97 mm  45 mm  depth  required spacing  with side-by-side mounting at the side  for grounded parts at 400 V  - downwards  - upwards  - at the side  for live parts at 400 V  - downwards  for live parts at 400 V  - downwards  30 mm  9 mm	Installation/ mounting/ dimensions		
height width 45 mm depth 97 mm  required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V — downwards — upwards — at the side • for live parts at 400 V — downwards 30 mm • for live parts at 400 V — downwards 30 mm  • for live parts at 400 V — downwards 30 mm			
height width 45 mm  depth 97 mm  required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V  — downwards — upwards — at the side • for live parts at 400 V — downwards 30 mm  • for live parts at 400 V — downwards 30 mm	fastening method		
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depth required spacing  • with side-by-side mounting at the side • for grounded parts at 400 V  — downwards — upwards — at the side • for live parts at 400 V  — downwards 30 mm  • match the side 9 mm  • for live parts at 400 V  — downwards 30 mm			
required spacing  • with side-by-side mounting at the side  • for grounded parts at 400 V  — downwards — upwards — at the side  • for live parts at 400 V — downwards  30 mm  9 mm  • for live parts at 400 V — downwards  30 mm			
<ul> <li>with side-by-side mounting at the side</li> <li>for grounded parts at 400 V</li> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> <li>for live parts at 400 V</li> <li>— downwards</li> <li>30 mm</li> <li>9 mm</li> <li>30 mm</li> <li>30 mm</li> <li>30 mm</li> <li>9 mm</li> </ul>	•		
<ul> <li>for grounded parts at 400 V</li> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> <li>for live parts at 400 V</li> <li>— downwards</li> <li>30 mm</li> <li>9 mm</li> <li>30 mm</li> <li>9 mm</li> </ul>		0 mm	
— downwards       30 mm         — upwards       30 mm         — at the side       9 mm         ● for live parts at 400 V       30 mm         — downwards       30 mm			
<ul> <li>— at the side</li> <li>9 mm</li> <li>for live parts at 400 V</li> <li>— downwards</li> <li>30 mm</li> </ul>		30 mm	
<ul> <li>for live parts at 400 V</li> <li>— downwards</li> <li>30 mm</li> </ul>	— upwards	30 mm	
— downwards 30 mm	— at the side	9 mm	
	•		
— upwards 30 mm			
	— upwards	30 mm	

• for grounded parts at 500 V - downwards 30 mm upwards 30 mm — at the side 9 mm • for live parts at 500 V - downwards 30 mm 30 mm - upwards - at the side 9 mm • for grounded parts at 690 V - downwards 50 mm 50 mm - upwards - backwards 0 mm - at the side 30 mm forwards 0 mm • for live parts at 690 V 50 mm - downwards - upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm **Connections/ Terminals** type of electrical connection • for main current circuit screw-type terminals arrangement of electrical connectors for main current Top and bottom circuit type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 10 mm<sup>2</sup>) - finely stranded with core end processing 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²), 1x 10 mm² • at AWG cables for main contacts 2x (16 ... 12), 2x (14 ... 8) tightening torque 2 ... 2.5 N·m for main contacts with screw-type terminals design of screwdriver shaft Diameter 5 to 6 mm size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw M4 · for main contacts Safety related data B10 value • with high demand rate according to SN 31920 5 000 proportion of dangerous failures • with low demand rate according to SN 31920 50 % • with high demand rate according to SN 31920 50 % failure rate [FIT] • with low demand rate according to SN 31920 50 FIT T1 value for proof test interval or service life according to 10 a IEC 61508 protection class IP on the front according to IEC IP20 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front display version for switching status Handle Certificates/ approvals For use in hazard-**General Product Approval** ous locations Confirmation KC

9 mm

- at the side







Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping

other











Confirmation

other

Railway



Confirmation

Vibration and Shock

## **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=3RV2021-0GA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2021-0GA10}\\$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA10

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

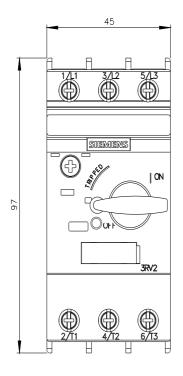
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2021-0GA10&lang=en

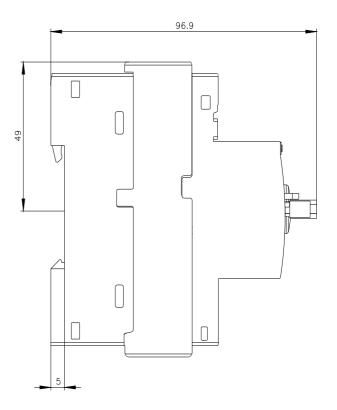
Characteristic: Tripping characteristics, I2t, Let-through current

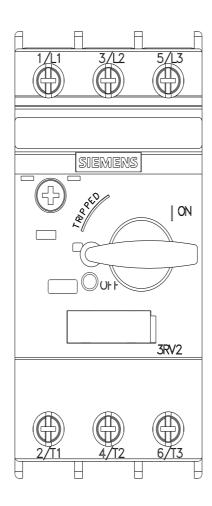
https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-0GA10/char

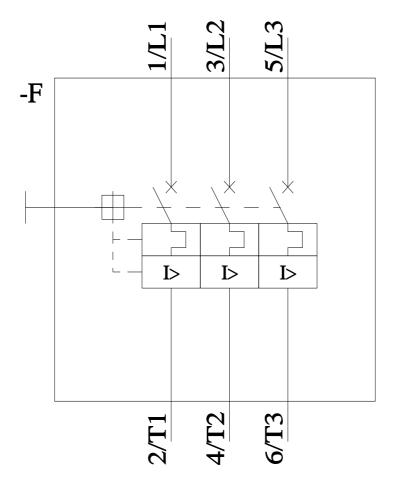
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-0GA10&objecttype=14&gridview=view1









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