SIEMENS

Data sheet

3RV2111-1BA10



Circuit breaker size S00 for motor protection, CLASS 10 with overload relay function A-release 1.4...2 A N-release 26 A screw terminal Standard switching capacity

| SIRIUS |
|---|
| Circuit breaker |
| For motor protection with overload relay function |
| 3RV2 |
| |
| S00 |
| S00, S0 |
| Yes |
| |
| 7.25 W |
| 2.4 W |
| 690 V |
| 6 kV |
| 25g / 11 ms |
| |
| 100 000 |
| 100 000 |
| 100 000 |
| Q |
| 10/01/2009 |
| Lead - 7439-92-1 |
| |
| 2 000 m |
| |
| -20 +60 °C |
| -50 +80 °C |
| -50 +80 °C |
| 10 95 % |
| |
| 3 |
| 1.4 2 A |
| |
| 20 690 V |
| 690 V |
| 690 V |
| 50 60 Hz |
| |

| operational current rated value | 2 A |
|---|---------------------|
| operational current | |
| at AC-3 at 400 V rated value | 2 A |
| at AC-3e at 400 V rated value | 2 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 0.4 kW |
| — at 400 V rated value | 0.75 kW |
| — at 500 V rated value | 0.8 kW |
| — at 690 V rated value | 1.1 kW |
| • at AC-3e | |
| — at 230 V rated value | 0.4 kW |
| — at 400 V rated value | 0.75 kW |
| — at 500 V rated value | 0.8 kW |
| — at 690 V rated value | 1.1 kW |
| operating frequency | |
| ● at AC-3 maximum | 15 1/h |
| • at AC-3e maximum | 15 1/h |
| Auxiliary circuit | |
| design of the auxiliary switch | laterally |
| number of NC contacts for auxiliary contacts | 0 |
| number of NO contacts for auxiliary contacts | 0 |
| number of CO contacts for auxiliary contacts | 0 |
| operational current of auxiliary contacts at AC-15 | |
| • at 24 V | 1.5 A |
| • at 230 V | 1.5 A |
| operational current of auxiliary contacts at DC-13 | |
| • at 24 V | 1 A |
| Protective and monitoring functions | |
| product function | |
| ground fault detection | No |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| 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 500 V rated value | 100 kA |
| • at AC at 690 V rated value | 10 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 500 V rated value | 100 kA |
| • at 690 V rated value | 10 kA |
| response value current of instantaneous short-circuit trip unit | 26 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 2 A |
| at 600 V rated value | 2 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 230 V rated value | 0.13 hp |
| • for 3-phase AC motor | |
| — at 460/480 V rated value | 1 hp |
| | |
| | 1 hp |
| — at 575/600 V rated value | 1 hp C600 / R300 |
| at 575/600 V rated value contact rating of auxiliary contacts according to UL | 1 hp C600 / R300 |
| | C600 / R300 |
| - at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection | C600 / R300 Yes |
| | C600 / R300 |

| for short-circuit protection of the auxiliary switch required | fuse gL/gG: 6 A, quick: 10 A |
|---|--|
| design of the fuse link for IT network for short-circuit | |
| protection of the main circuit | |
| • at 400 V | gL/gG 25 A |
| • at 500 V | gL/gG 25 A |
| • at 690 V | gL/gG 20 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 97 mm |
| width | 65 mm |
| depth | 97 mm |
| required spacing | |
| with side-by-side mounting at the side | 0 mm |
| for grounded parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for live parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 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 |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for grounded parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| • for live parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side — forwards | 30 mm 0 mm |
| Connections/ Terminals | |
| | |
| type of electrical connection • for main current circuit | screw-type terminals |
| for auxiliary and control 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 (0,75 2,5 mm²), 2x 4 mm² |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| for AWG cables for main contacts | 2x (18 14), 2x 12 |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| — finely stranded with core end processing | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| tightening torque | |
| for main contacts with screw-type terminals | 0.8 1.2 N·m |
| for auxiliary contacts with screw-type terminals | 0.8 1.2 N·m |

| design of screwdriver | shaft | | Diam | eter 5 to 6 mm | | |
|---|--|---------------------------------------|----------|--------------------------------|-------------------------|-----------------------|
| size of the screwdrive | r tip | | Pozid | Iriv size 2 | | |
| design of the thread o | f the connection screw | | | | | |
| for main contacts | | | M3 | | | |
| of the auxiliary ar | nd control contacts | | M3 | | | |
| afety related data | | | | | | |
| product function suitable | e for safety function | | Yes | | | |
| suitability for use | , , | | | | | |
| safety-related sw | itching on | | No | | | |
| safety-related sw | • | | Yes | | | |
| service life maximum | | | 10 a | | | |
| test wear-related servi | ice life necessary | | Yes | | | |
| proportion of dangero | | | 100 | | | |
| | rate according to SN 319 | 920 | 40 % | | | |
| | d rate according to SN 31 | | 50 % | | | |
| | emand rate according to | | 5 000 | 1 | | |
| | ow demand rate according to | | 50 FI | | | |
| 31920 | ow demand rate accord | ing to SN | 50 FI | 1 | | |
| ISO 13849 | | | | | | |
| device type according | to ISO 13849-1 | | 3 | | | |
| | ording to ISO 13849-2 r | necessarv | Yes | | | |
| IEC 61508 | | · · · · · · · · · · · · · · · · · · · | | | | |
| | ording to IEC 61508-2 | | Туре | A | | |
| T1 value | | | .,,,,,, | | | |
| | rval or service life accord | ling to IEC | 10 a | | | |
| 61508 | | | 10 4 | | | |
| Electrical Safety | | | | | | |
| protection class IP on | the front according to | IEC 60529 | IP20 | | | |
| touch protection on th | e front according to IE | C 60529 | finger | -safe, for vertical contact | from the front | |
| isplay | | | | | | |
| display version for swite | hing status | | Hand | le | | |
| pprovals Certificates | - | | | | | |
| General Product App | oval | | | | | |
| (6 | | | | | | |
| | UK | (m) | | Confirmation | س | KC |
| EG-Konf. | CA | | | Confirmation | | <u>KC</u> |
| | ĊÀ | CCC | | | (UL) UL | KC |
| EG-Konf. General Product Ap- proval | UK CA Test Certificates | | | Confirmation Marine / Shipping | UL | KC |
| General Product Ap- | UK Certificates Test Certific- ates/Test Report | Special Test Ce ate | ertific- | | | |
| General Product Approval | Type Test Certific- | Special Test Ce | ertific- | | BUREAU | Ĵ & DIV |
| General Product Approval | Type Test Certific- | Special Test Ce | ertific- | Marine / Shipping | B U R E A U VER ITAS | Ĵ Å DNV |
| General Product Approval | Type Test Certific- | Special Test Ce | ertific- | Marine / Shipping | BUREAU | Ĵ & DIV |
| General Product Approval | Type Test Certific- | Special Test Ce | ertific- | Marine / Shipping | B U R E A U VER ITAS | Ĵ Å DNV |
| General Product Approval | Type Test Certific- | Special Test Ce | ertific- | Marine / Shipping | B U R E A U VER ITAS | Ĵ Å DNV |
| General Product Approval | Type Test Certific- | Special Test Ce ate | ertific- | Marine / Shipping | B U R E A U VER ITAS | Ĵ.Å. DNV |

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=3RV2111-1BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2111-1BA10

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

https://supp rt.industry.siemens.com/cs/ww/en/ps/3RV2111-1BA10

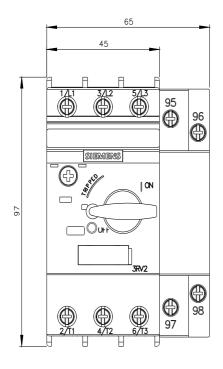
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2111-1BA10&lang=en

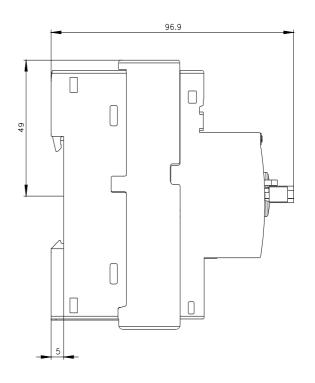
Characteristic: Tripping characteristics, I2t, Let-through current

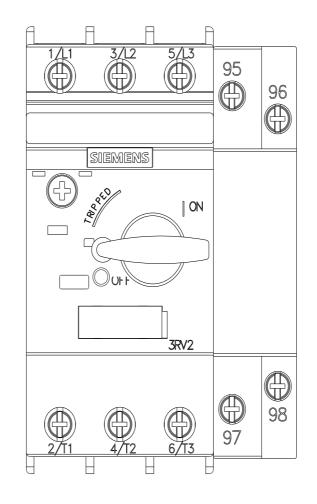
https://support.industry.siemens.com/cs/ww/en/ps/3RV2111-1BA10/char

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

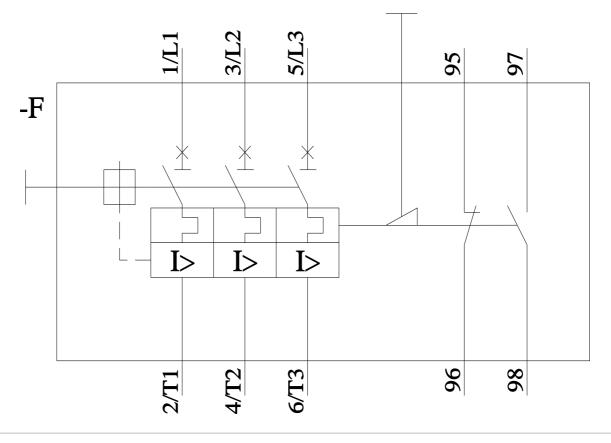
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2111-1BA10&objecttype=14&gridview=view1











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