Data sheet

3RV2011-1CA10-0BA0



Special type Circuit breaker size S00 for motor protection, CLASS 10 A-release 1.8...2.5 A N-release 33 A screw terminal Standard switching capacity Ambient temperature -50 $^{\circ}$ C 500 switching cycles

| product type designation design of the product product type designation 3RV2 Ceneral technical data size of contactor can be combined company-specific product extension sustiliary switch yes power loss PM for rated value of the current • at AC in hot operating state expense • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value shock resistance according to IEC 80088-2-27 25g / 11 ms mechanical service life (operating cycles) • of auxiliary contacts typical electrical endurance (operating cycles) (typical electrical endurance (operating cycles) (typical electrical endurance (operating cycles) (typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Anbiont conditions installation altitude at height above sea level maximum ambient temperature • during operation • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 at 400 V rated value operational current • at AC-3 at 400 V rated value operating power • at AC-3 at 400 V rated value operating power • at AC-3 | product brand name | SIRIUS | |
|--|---|----------------------|--|
| product type designation General technical data size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch power loss [M] for rated value of the current at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 general service life (operating cycles) of other main contacts typical of auxiliary contacts typical of auxiliary contacts typical of auxiliary contacts typical selectrical endurance (operating cycles) typical reference code according to IEC 81346-2 Question of the Code According to IEC 813 | product designation | Circuit breaker | |
| size of the circuit-breaker size of contactor can be combined company-specific product extension auxiliary switch early AC in hot operating state early AC in hot operating state per pole early colored services and surface surface and surface surface and surface surface surface and surface surface surface surface surface surface surface surface and surface | design of the product | For motor protection | |
| size of the circuit-breaker size of contactor can be combined company-specific size of contactor can be combined company-specific product extension auxiliary switch yes power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state policy at AC in hot operating state per pole surge voltage resistance rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 geg/11 ms mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliar | product type designation | 3RV2 | |
| size of contactor can be combined company-specific product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value • 680 V surge voltage resistance rated value • 680 V shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical • of auxiliary contacts typical • of multiple of the conditions installation altitude at height above sea level maximum ambient conditions installation altitude at height above sea level maximum • during operation • during storage • during transport • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating requency rated value • at AC-3 arted value maximum • 690 V operational current rated value operational current rated value • operational current • at AC-3 at 400 V rated value • operating power | General technical data | | |
| product extension auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole surge voltage resistance rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) • of the main contacts typical of auxiliary contacts typical sleictrical endurance (operating cycles) (typical electrical endurance (operating to electrical endurance (typical endurance electrical electrical endurance electrical endurance electrical electric | size of the circuit-breaker | S00 | |
| power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-2-27 25g /11 ms mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts t | size of contactor can be combined company-specific | S00, S0 | |
| at AC in hot operating state at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value 690 V surge voltage resistance rated value 660 V shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical 500 af auxiliary contacts typical 500 electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature during operation -50 +60 °C during storage -50 +80 °C during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • at AC-3 rated value 9 at AC-3 rated value operational current • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value • operating power | product extension auxiliary switch | Yes | |
| at AC in hot operating state per pole insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 mechanical service life (operating cycles) of the main contacts typical of of auxiliary contacts typical electrical endurance (operating cycles) typical solo electrical endurance (operating cycles) typical solo reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature olduring storage olduring storage olduring transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage orated value at AC-3 rated value maximum solo V rated value operational current rated value operational current at AC-3 rated value at AC-3 rated value at AC-3 rated value at AC-3 rated value operational current at AC-3 rated value operational current at AC-3 rated value | power loss [W] for rated value of the current | | |
| insulation voltage with degree of pollution 3 at AC rated value surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical for the main contacts typical of auxiliary contacts typical selectrical endurance (operating cycles) lypical solutions reference code according to IEC 81346-2 Qusubstance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum et AC-3 rated value at AC-3 at 400 V rated value operating power | at AC in hot operating state | 7.25 W | |
| surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of atuxiliary contacts typical soft memin contacts typical federical endurance (operating cycles) typical substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature during operation during storage during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating requency rated value at AC-3 rated value maximum et AC-3 rated value operational current at AC-3 at 400 V rated value operating power | at AC in hot operating state per pole | 2.4 W | |
| shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) of the main contacts typical 500 electrical endurance (operating cycles) typical 500 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 during operation -50 +60 °C during storage -50 +80 °C eduring transport -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 current-dependent overload release operating voltage rated value 20 690 V e at AC-3 rated value maximum 690 V operational current rated value 2.5 A operating power | insulation voltage with degree of pollution 3 at AC rated value | 690 V | |
| mechanical service life (operating cycles) • of the main contacts typical • of auxiliary contacts typical electrical endurance (operating cycles) typical ference code according to IEC 81346-2 Questrance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3 at 400 V rated value operating power | surge voltage resistance rated value | 6 kV | |
| of the main contacts typical of auxiliary contacts typical electrical endurance (operating cycles) typical soo reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation oduring storage oduring transport relative humidity during operation adjustable current response value current of the current-dependent overload release operating voltage | shock resistance according to IEC 60068-2-27 | 25g / 11 ms | |
| of auxiliary contacts typical electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current operational current • at AC-3 at 400 V rated value operating power | mechanical service life (operating cycles) | | |
| electrical endurance (operating cycles) typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • at AC-3 rated value maximum operational current • at AC-3 at 400 V rated value operating power | of the main contacts typical | 500 | |
| 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 • during operation -50 +60 °C • during storage -50 +80 °C • during transport -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 current-dependent overload release operating voltage • rated value 20 690 V operating frequency rated value 50 60 Hz operational current rated value 2.5 A operational current • at AC-3 at 400 V rated value 2.5 A operating power | of auxiliary contacts typical | 500 | |
| Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current rated value operational current • at AC-3 at 400 V rated value 2.5 A operating power | electrical endurance (operating cycles) typical | 500 | |
| installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3 at 400 V rated value operating power | reference code according to IEC 81346-2 | Q | |
| installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value operational current rated value operational current rated value 2.5 A operating power | Substance Prohibitance (Date) | 10/01/2009 | |
| ambient temperature • during operation • during storage • during transport relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating lequency rated value 2.5 A operational current • at AC-3 at 400 V rated value 2.5 A operating power | Ambient conditions | | |
| during operation during storage during transport 50 +80 °C during transport 50 +80 °C telative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage at AC-3 rated value maximum operating frequency rated value operating frequency rated value 50 60 Hz operational current rated value 2.5 A operating power at AC-3 at 400 V rated value 2.5 A operating power 2.5 A | installation altitude at height above sea level maximum | 2 000 m | |
| during storage during transport -50 +80 °C relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operating frequency rated value operating frequency rated value 20 690 V operating frequency rated value 25 60 Hz operational current at AC-3 at 400 V rated value 2.5 A operating power 2.5 A | ambient temperature | | |
| • during transport relative humidity during operation Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current rated value operational current rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value 2.5 A operating power | during operation | -50 +60 °C | |
| relative humidity during operation 10 95 % Main circuit number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value 2.5 A operating power | during storage | -50 +80 °C | |
| Main circuit number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operational current rated value • at AC-3 at 400 V rated value • at AC-3 at 400 V rated value 2.5 A operating power | during transport | -50 +80 °C | |
| number of poles for main current circuit adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current rated value • at AC-3 at 400 V rated value operating power | relative humidity during operation | 10 95 % | |
| adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current rated value • at AC-3 at 400 V rated value 2.5 A operating power | Main circuit | | |
| dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operational current rated value • at AC-3 at 400 V rated value 2.5 A operating power | number of poles for main current circuit | 3 | |
| rated value at AC-3 rated value maximum 690 V operating frequency rated value operational current rated value at AC-3 at 400 V rated value operating power | | 1.8 2.5 A | |
| ● at AC-3 rated value maximum operating frequency rated value operational current rated value operational current ● at AC-3 at 400 V rated value 2.5 A operating power | operating voltage | | |
| operating frequency rated value 50 60 Hz operational current rated value 2.5 A operational current • at AC-3 at 400 V rated value 2.5 A operating power | • rated value | 20 690 V | |
| operational current rated value operational current • at AC-3 at 400 V rated value operating power 2.5 A 2.5 A | at AC-3 rated value maximum | 690 V | |
| operational current • at AC-3 at 400 V rated value operating power 2.5 A | operating frequency rated value | 50 60 Hz | |
| • at AC-3 at 400 V rated value 2.5 A operating power | operational current rated value | 2.5 A | |
| operating power | operational current | | |
| | • at AC-3 at 400 V rated value | 2.5 A | |
| • at AC-3 | operating power | | |
| | • at AC-3 | | |

| at 220 V roted value | 0.4 1/1/1 |
|--|--|
| — at 230 V rated value | 0.4 kW |
| — at 400 V rated value | 0.75 kW |
| — at 500 V rated value | 1.1 kW |
| — at 690 V rated value | 1.5 kW |
| operating frequency | |
| • at AC-3 maximum | 15 1/h |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 0 |
| number of NO contacts for auxiliary contacts | 0 |
| number of CO contacts for auxiliary contacts | 0 |
| 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 (Icu) | |
| 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 at 400 V rated value | 100 kA |
| at 500 V rated value at 500 V rated value | 100 kA |
| | |
| at 690 V rated value | 10 kA |
| response value current of instantaneous short-circuit trip unit | 33 A |
| Short-circuit protection | V. |
| product function short circuit protection | Yes |
| design of the short-circuit trip | magnetic |
| design of the fuse link for IT network for short-circuit protection of the main circuit | |
| • at 400 V | gG 25 A |
| • at 500 V | gG 25 A |
| • at 690 V | gG 20 A |
| Installation/ mounting/ dimensions | 90 20 71 |
| | anv |
| mounting position fastening method | any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| | 97 mm |
| height width | 45 mm |
| | |
| depth | 97 mm |
| required spacing | 0.000 |
| with side-by-side mounting at the side for grounded parts at 400 V | 0 mm |
| • for grounded parts at 400 V | 20 |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for live parts at 400 V | |
| | |
| — downwards | 30 mm |
| — upwards | 30 mm 30 mm |
| — upwards— at the side | 30 mm |
| — upwards | 30 mm 30 mm 9 mm |
| — upwards— at the side | 30 mm 30 mm |
| — upwards — at the side • for grounded parts at 500 V — downwards — upwards | 30 mm 30 mm 9 mm |
| upwardsat the sidefor grounded parts at 500 Vdownwards | 30 mm 30 mm 9 mm |
| — upwards — at the side • for grounded parts at 500 V — downwards — upwards | 30 mm 30 mm 9 mm 30 mm 30 mm |
| — upwards — at the side ● for grounded parts at 500 V — downwards — upwards — at the side | 30 mm 30 mm 9 mm 30 mm 30 mm |
| upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V | 30 mm 30 mm 9 mm 30 mm 30 mm 9 mm |
| upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards | 30 mm 30 mm 9 mm 30 mm 9 mm 30 mm 9 mm |
| upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards upwards upwards | 30 mm 30 mm 9 mm 30 mm 30 mm 9 mm 30 mm 9 mm |
| upwards at the side for grounded parts at 500 V downwards upwards at the side for live parts at 500 V downwards upwards at the side | 30 mm 30 mm 9 mm 30 mm 30 mm 9 mm 30 mm 9 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 | 30 mm |
| — forwards | 0 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |

| — forwards | 0 mm |
|---|-------------------------------------|
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| 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) |
| tightening torque | |
| for main contacts with screw-type terminals | 0.8 1.2 N·m |
| 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 | |
| for main contacts | M3 |
| Safety related data | |
| T1 value for proof test interval or service life according to IEC 61508 | 10 a |

T1 value for proof test interval or service life according to IEC
61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529

display version for switching status

10 a

10 a

10 a

HP20

IP20

Handle

Certificates/ approvals

General Product Approval Declaration of Conformity Test Certificates

Confirmation







Special Test Certificate

Test Certificates

Marine / Shipping

<u>KC</u>

Type Test Certificates/Test Report











Marine / Shipping

other

Railway



Confirmation



Vibration and Shock

Confirmation

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=3RV2011-1CA10-0BA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1CA10-0BA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1CA10-0BA0

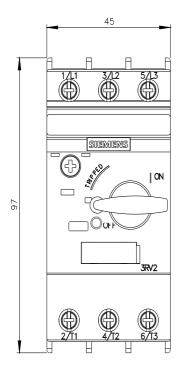
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

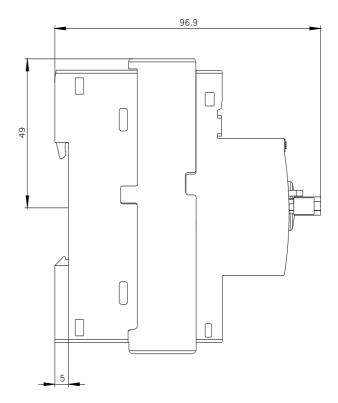
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1CA10-0BA0&lang=en

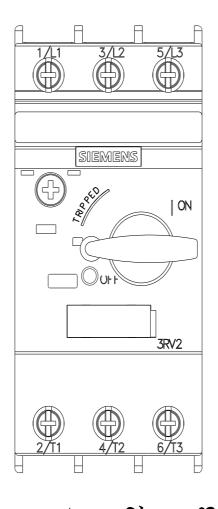
Characteristic: Tripping characteristics, I2t, Let-through current

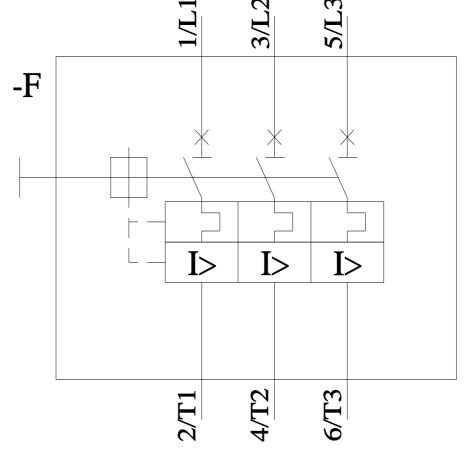
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1CA10-0BA0/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1CA10-0BA0&objecttype=14&gridview=view1









last modified: 11/21/2022 🖸

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