SIEMENS

Data sheet 3RT2336-1NP30



contactor AC-1, 60 A, 400 V / 40 °C, 4-pole, 175-280 V AC/DC, 50/60 Hz, with integrated varistor, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S2

| SIRIUS |
|---------------------------|
| Contactor |
| 3RT23 |
| |
| S2 |
| |
| No |
| Yes |
| |
| 12.8 W |
| 3.2 W |
| 1 W |
| |
| 690 V |
| 690 V |
| |
| 6 kV |
| 6 kV |
| |
| 7.7g / 5 ms, 4.5g / 10 ms |
| 7.7g / 5 ms, 4.5g / 10 ms |
| |
| 12g / 5 ms, 7g / 10 ms |
| 12g / 5 ms, 7g / 10 ms |
| |
| 10 000 000 |
| 10 000 000 |
| Q |
| 10/01/2014 |
| |
| 2 000 m |
| |
| -40 +70 °C |
| -55 +80 °C |
| 10 % |
| 95 % |
| |
| 4 |
| 4 |
| |

| operational current | |
|--|--|
| at AC-1 at 400 V at ambient temperature 40 °C rated | 60 A |
| value | |
| • at AC-1 | 00.4 |
| up to 690 V at ambient temperature 40 °C rated value | 60 A |
| — up to 690 V at ambient temperature 60 °C rated | 55 A |
| value | |
| • at AC-3 | |
| — at 400 V rated value | 38 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 16 mm² |
| value | |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value |
| Ilmited to 5 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value |
| Iimited to 10 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value |
| Ilmited to 30 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value |
| Ilmited to 60 s switching at zero current maximum | Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at AC | 1 500 1/h |
| • at DC | 1 500 1/h |
| operating frequency at AC-1 maximum | 700 1/h |
| Control circuit/ Control | |
| type of voltage | AC/DC |
| type of voltage type of voltage of the control supply voltage | AC/DC |
| control supply voltage at AC | |
| • at 50 Hz rated value | 175 280 V |
| • at 60 Hz rated value | 175 280 V |
| control supply voltage at DC | |
| • rated value | 175 280 V |
| operating range factor control supply voltage rated value of | |
| magnet coil at DC | |
| • initial value | 0.8 |
| full-scale value | 1.1 |
| operating range factor control supply voltage rated value of | |
| magnet coil at AC | 00.44 |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.8 1.1 |
| design of the surge suppressor | with varistor |
| inrush current peak | 5 A |
| duration of inrush current peak locked-rotor current mean value | 30 μs 0.2 A |
| | 0.42 A |
| locked-rotor current peak duration of locked-rotor current | 0.42 A 230 ms |
| holding current mean value | 230 ms 6 mA |
| apparent pick-up power of magnet coil at AC | O TIME |
| • at 50 Hz | 40 VA |
| • at 60 Hz | 40 VA |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 2 VA |
| • at 60 Hz | 2 VA |
| closing power of magnet coil at DC | 23 W |
| holding power of magnet coil at DC | 1 W |
| closing delay | |
| • at AC | 35 110 ms |
| • at DC | 35 110 ms |
| opening delay | |
| • at AC | 30 55 ms |
| • at DC | 30 55 ms |
| arcing time | 10 20 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| | |

| number of NC contacts for auxiliary contacts | 1 |
|---|--|
| attachable | 2 |
| instantaneous contact | 1 |
| number of NO contacts for auxiliary contacts | 1 |
| attachable | 2 |
| instantaneous contact | 1 |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| at 230 V rated value | 10 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| at 690 V rated value | 1 A |
| operational current at DC-12 | |
| at 24 V rated value | 10 A |
| • at 48 V rated value | 6 A |
| • at 60 V rated value | 6 A |
| • at 110 V rated value | 3 A |
| • at 125 V rated value | 2 A |
| • at 220 V rated value | 1 A |
| at 600 V rated value | 0.15 A |
| operational current at DC-13 | |
| at 24 V rated value | 10 A |
| at 48 V rated value | 2 A |
| • at 110 V rated value | 1 A |
| at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| -t 000 \ /tdd | 0.1 A |
| at 600 V rated value | |
| design of the miniature circuit breaker for short-circuit protection | gG: 10 A (230 V, 400 A) |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required | |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts | gG: 10 A (230 V, 400 A) 1 faulty switching per 100 million (17 V, 1 mA) |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings | 1 faulty switching per 100 million (17 V, 1 mA) |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL | |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection | 1 faulty switching per 100 million (17 V, 1 mA) |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection | 1 faulty switching per 100 million (17 V, 1 mA) |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link | 1 faulty switching per 100 million (17 V, 1 mA) A600 / P600 |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit | 1 faulty switching per 100 million (17 V, 1 mA) A600 / P600 No |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required | 1 faulty switching per 100 million (17 V, 1 mA) A600 / P600 No gG: 160 A (690 V, 100 kA) |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 | 1 faulty switching per 100 million (17 V, 1 mA) A600 / P600 No gG: 160 A (690 V, 100 kA) gG: 63 A (690 V,100 kA) |
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| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 | 1 faulty switching per 100 million (17 V, 1 mA) A600 / P600 No gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
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| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 • side-by-side mounting height | 1 faulty switching per 100 million (17 V, 1 mA) A600 / P600 No gG: 160 A (690 V, 100 kA) gG: 63 A (690 V,100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary switch required contact reliability of auxiliary contacts UL/CSA ratings contact rating of auxiliary contacts according to UL Short-circuit protection product function 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 • side-by-side mounting height width | 1 faulty switching per 100 million (17 V, 1 mA) A600 / P600 No gG: 160 A (690 V, 100 kA) gG: 63 A (690 V, 100 kA) gG: 10 A (690 V, 1 kA) +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 Yes 114 mm 75 mm |
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| — downwards | 10 mm |
|--|--|
| — at the side | 6 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| for auxiliary and control circuit | screw-type terminals |
| at contactor for auxiliary contacts | Screw-type terminals |
| of magnet coil | Screw-type terminals |
| type of connectable conductor cross-sections for main contacts | Colon type terminale |
| solid or stranded | 2x (1 35 mm²), 1x (1 50 mm²) |
| finely stranded with core end processing | 2x (1 25 mm²), 1x (1 35 mm²) |
| connectable conductor cross-section for main contacts | 27 (1 20 11111), 17 (1 00 11111) |
| solid or stranded | 1 50 mm² |
| finely stranded with core end processing | 1 35 mm² |
| connectable conductor cross-section for auxiliary contacts | 1 00 11111 |
| solid or stranded | 0.5 2.5 mm² |
| finely stranded with core end processing | 0.5 2.5 mm² |
| finely stranded without core end processing | 0.5 2.5 mm² |
| type of connectable conductor cross-sections | 0.0 2.0 Hilli |
| for auxiliary contacts | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| — 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 mm²), 2x (0.75 2.5 mm²) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| AWG number as coded connectable conductor cross | ZX (20 10), ZX (10 14) |
| section | |
| for main contacts | 18 1 |
| for auxiliary contacts | 20 14 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes |
| positively driven operation according to IEC 60947-5-1 | No |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| Communication/ Protocol | |
| product function bus communication | No |
| Certificates/ approvals | |

General Product Approval



Confirmation





<u>KC</u>



Functional

EMC Safety/Safety of Machinery

Declaration of Conformity Test Certificates



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good Environment



Confirmation

Vibration and Shock

Transport Information

Environmental Confirmations

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=3RT2336-1NP30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2336-1NP30

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NP30

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

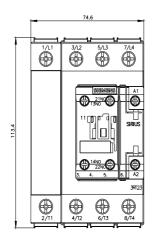
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2336-1NP30&lang=en

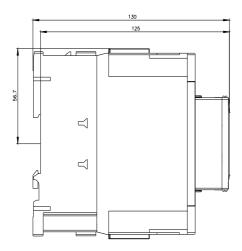
Characteristic: Tripping characteristics, I2t, Let-through current

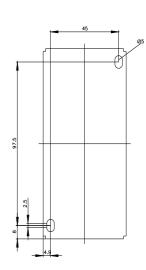
https://support.industry.siemens.com/cs/ww/en/ps/3RT2336-1NP30/char

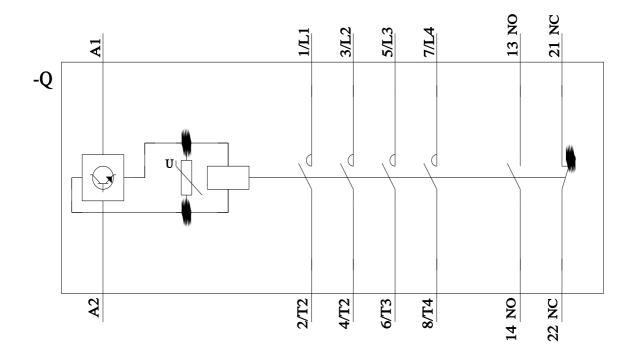
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2336-1NP30&objecttype=14&gridview=view1









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