SIEMENS

Data sheet 3RT2015-4AN61



power contactor, AC-3e/AC-3, 7 A, 3 kW / 400 V, 3-pole, 200 V AC, 50 Hz / 200-220 V, 60 Hz, auxiliary contacts: 1 NO, ring cable lug connection, size: S00

| product brand name | SIRIUS |
|--|----------------------------|
| product designation | Power contactor |
| product type designation | 3RT2 |
| General technical data | |
| size of contactor | S00 |
| product extension | |
| function module for communication | No |
| auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 0.6 W |
| at AC in hot operating state per pole | 0.2 W |
| without load current share typical | 4.8 W |
| insulation voltage | |
| of main circuit with degree of pollution 3 rated value | 690 V |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V |
| surge voltage resistance | |
| of main circuit rated value | 6 kV |
| of auxiliary circuit rated value | 6 kV |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V |
| shock resistance at rectangular impulse | |
| • at AC | 6,7g / 5 ms, 4,2g / 10 ms |
| shock resistance with sine pulse | |
| • at AC | 10,5g / 5 ms, 6,6g / 10 ms |
| mechanical service life (operating cycles) | |
| of contactor typical | 30 000 000 |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| 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 | -25 +60 °C |
| during storage | -55 +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| Main circuit | |
| number of poles for main current circuit | 3 |

| number of NO contacts for main contacts | 3 |
|--|---------|
| operating voltage | |
| • at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated | 18 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 18 A |
| value | 40.4 |
| up to 690 V at ambient temperature 60 °C rated value | 16 A |
| • at AC-3 | |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| — at 690 V rated value | 4.9 A |
| • at AC-3e | 7.071 |
| — at 400 V rated value | 7 A |
| — at 500 V rated value | 6 A |
| | |
| — at 690 V rated value | 4.9 A |
| at AC-4 at 400 V rated value at AC-5 up to 600 V rated value | 6.5 A |
| at AC-5a up to 690 V rated value | 15.8 A |
| at AC-5b up to 400 V rated value | 5.8 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 4 A |
| — up to 400 V for current peak value n=20 rated value | 4 A |
| up to 500 V for current peak value n=20 rated value | 3.8 A |
| up to 690 V for current peak value n=20 rated value | 3.6 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 2.7 A |
| up to 400 V for current peak value n=30 rated value | 2.7 A |
| up to 500 V for current peak value n=30 rated value | 2.5 A |
| up to 690 V for current peak value n=30 rated value | 2.4 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 2.5 mm² |
| operational current for approx. 200000 operating cycles at | |
| AC-4 | |
| at 400 V rated value | 2.6 A |
| at 690 V rated value | 1.8 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 1.5 A |
| — at 220 V rated value | 0.6 A |
| — at 440 V rated value | 0.42 A |
| — at 600 V rated value | 0.42 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 8.4 A |
| — at 220 V rated value | 1.2 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.5 A |
| with 3 current paths in series at DC-1 | |
| - | 15 A |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 15 A |
| — at 440 V rated value | 0.9 A |
| — at 600 V rated value | 0.7 A |
| at 1 current path at DC-3 at DC-5 | |

| — at 24 V rated value | 15 A |
|---|--|
| — at 60 V rated value | 0.35 A |
| — at 110 V rated value | 0.1 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 3.5 A |
| — at 110 V rated value | 0.25 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 15 A |
| — at 60 V rated value | 15 A |
| — at 110 V rated value | 15 A |
| — at 220 V rated value | 1.2 A |
| — at 440 V rated value | 0.14 A |
| — at 600 V rated value | 0.14 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| • at AC-3e | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 3 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| • at 400 V rated value | 1.15 kW |
| at 690 V rated value | 1.15 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 1.5 kVA |
| up to 400 V for current peak value n=20 rated value | 2.7 kVA |
| up to 500 V for current peak value n=20 rated value | 3.3 kVA |
| • up to 690 V for current peak value n=20 rated value | 4.3 kVA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 1 kVA |
| up to 400 V for current peak value n=30 rated value | 1.8 kVA |
| up to 500 V for current peak value n=30 rated value | 2.2 kVA |
| • up to 690 V for current peak value n=30 rated value | 2.9 kVA |
| short-time withstand current in cold operating state up to | |
| 40 °C | 120 At Lice minimum erece section and to AC 4 retail value |
| limited to 1 s switching at zero current maximum | 120 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum limited to 10 s switching at zero current maximum | 86 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum limited to 20 s switching at zero current maximum | 67 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum limited to 60 s switching at zero current maximum | 52 A; Use minimum cross-section acc. to AC-1 rated value |
| Iimited to 60 s switching at zero current maximum | 43 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | 10 000 1/h |
| • at AC | 10 000 1/h |
| operating frequency | 4.000.4/b |
| • at AC-1 maximum | 1 000 1/h |
| • at AC-2 maximum | 750 1/h |
| at AC-3 maximum at AC-3 maximum | 750 1/h |
| at AC-3e maximum at AC-4 maximum | 750 1/h |
| at AC-4 maximum Control sirouit/ Control | 250 1/h |
| Control circuit/ Control | 40 |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | 000 V |
| at 50 Hz rated value | 200 V |
| at 60 Hz rated value | 220 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| • at 50 Hz | 0.8 1.1 |
| = ULVVIII | Walter to I |

| ● at 60 Hz | 0.85 1.1 |
|--|---|
| apparent pick-up power of magnet coil at AC | |
| ● at 50 Hz | 26.4 VA |
| ● at 60 Hz | 31.7 VA |
| inductive power factor with closing power of the coil | |
| ● at 50 Hz | 0.81 |
| ● at 60 Hz | 0.81 |
| apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 4.4 VA |
| ● at 60 Hz | 4.8 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.24 |
| ● at 60 Hz | 0.25 |
| closing delay | |
| • at AC | 9 35 ms |
| opening delay | |
| • at AC | 4 15 ms |
| arcing time | 10 15 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NO contacts for auxiliary contacts 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 60 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 |
| • at 600 V rated value | 0.1 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| • at 480 V rated value | 4.8 A |
| • at 600 V rated value | 6.1 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 110/120 V rated value | 0.25 hp |
| — at 230 V rated value | 0.75 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 1.5 hp |
| — at 220/230 V rated value | 2 hp |
| — at 460/480 V rated value | 3 hp |
| — at 575/600 V rated value | 5 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| | |

gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) - with type of coordination 1 required - with type of assignment 2 required gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA) • for short-circuit protection of the auxiliary switch required gG: 10 A (500 V, 1 kA) Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 • side-by-side mounting Yes 58 mm height width 45 mm depth 73 mm required spacing • with side-by-side mounting - forwards 10 mm - upwards 10 mm - downwards 10 mm — at the side 0 mm for grounded parts 10 mm - forwards - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - downwards 10 mm — at the side 6 mm type of electrical connection • for main current circuit Ring cable lug connection • for auxiliary and control circuit ring terminal lug connection • at contactor for auxiliary contacts Ring cable lug connection • of magnet coil Ring cable lug connection Safety related data product function • mirror contact according to IEC 60947-4-1 Yes; with 3RH29 1 000 000 B10 value with high demand rate according to SN 31920 proportion of dangerous failures 40 % • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 100 FIT T1 value for proof test interval or service life according to IEC 20 a 61508 protection class IP on the front according to IEC 60529 IP00 suitability for use

General Product Approval

• safety-related switching OFF



Certificates/ approvals



• for short-circuit protection of the main circuit

Confirmation



<u>KC</u>



Yes



Type Examination Cer**tificate**





Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping

Confirmation



Confirmation

Vibration and Shock

Railway

Environmental Con**firmations**

Environment

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=3RT2015-4AN61

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2015-4AN61

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-4AN61

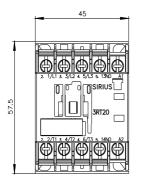
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

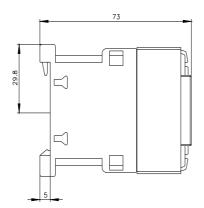
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2015-4AN61&lang=en

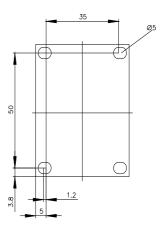
Characteristic: Tripping characteristics, I2t, Let-through current

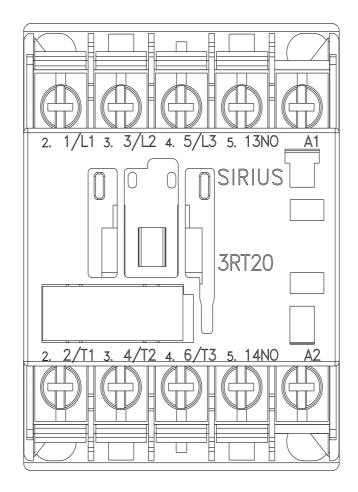
https://support.industry.siemens.com/cs/ww/en/ps/3RT2015-4AN61/char

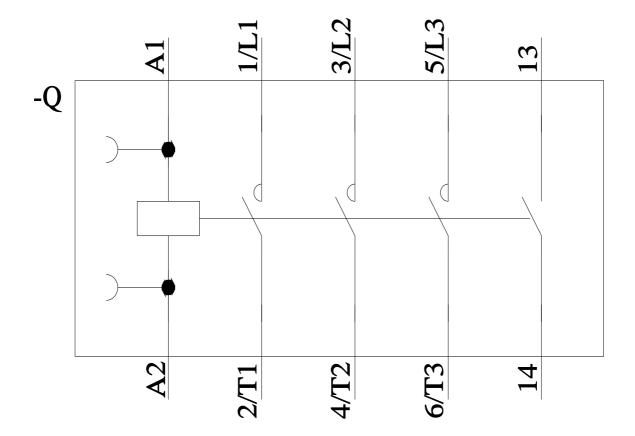
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2015-4AN61&objecttype=14&gridview=view1











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