SIEMENS

Data sheet

3RT2016-2AP01



Power contactor, AC-3 9 A, 4 kW / 400 V 1 NO, 230 V AC, 50 / 60 Hz, 3-pole, Size S00 Spring-type terminal

| 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 | 0.9 W |
| at AC in hot operating state per pole | 0.3 W |
| without load current share typical | 4.2 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 safe isolation 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 (switching 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 value | 22 A |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated value | 22 A |
| — up to 690 V at ambient temperature 60 °C rated value | 20 A |
| • at AC-3 | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| ● at AC-3e | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| • at AC-4 at 400 V rated value | 8.5 A |
| at AC-5a up to 690 V rated value | 19.4 A |
| • at AC-5b up to 400 V rated value | 7.4 A |
| • at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 5.3 A |
| up to 400 V for current peak value n=20 rated value | 5.3 A |
| — up to 500 V for current peak value n=20 rated value | 5.3 A |
| up to 690 V for current peak value n=20 rated value | 5 A |
| at AC-6a up to 230 V for current peak value n=30 rated value | 3.5 A |
| — up to 400 V for current peak value n=30 rated value | 3.5 A |
| — up to 500 V for current peak value n=30 rated value | 3.6 A |
| — up to 690 V for current peak value n=30 rated value | 3.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated value operational current for approx. 200000 operating | 4 mm ² |
| cycles at AC-4 | |
| at 400 V rated value | 4.1 A |
| • at 690 V rated value | 3.3 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 2.1 A |
| — at 220 V rated value | 0.8 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 | |
| - at 24 V rated value | 20 A |
| | 20 A 12 A |
| — at 110 V rated value | |
| — at 220 V rated value | 1.6 A |
| — at 440 V rated value | 0.8 A |
| — at 600 V rated value | 0.7 A |
| with 3 current paths in series at DC-1 | |

| — at 24 V rated value | 20 A |
|---|---|
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 20 A |
| — at 440 V rated value | 1.3 A |
| — at 600 V rated value | 1 A |
| at 1 current path at DC-3 at DC-5 | |
| — at 24 V rated value | 20 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 | 20 A |
| — at 110 V rated value | 0.35 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 20 A |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 1.5 A |
| — at 440 V rated value | 0.2 A |
| — at 600 V rated value | 0.2 A |
| operating power | - |
| • at AC-3 | |
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 4 kW |
| — at 690 V rated value | 5.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 4 kW |
| — at 690 V rated value | 5 kW |
| operating power for approx. 200000 operating cycles | - |
| at AC-4 | |
| at 400 V rated value | 2 kW |
| • at 690 V rated value | 2.5 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 2 kVA |
| up to 400 V for current peak value n=20 rated value | 3.6 kVA |
| up to 500 V for current peak value n=20 rated value | 4.6 kVA |
| up to 690 V for current peak value n=20 rated value | 5.9 kVA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 1.3 kVA |
| up to 400 V for current peak value n=30 rated value | 2.4 kVA |
| up to 500 V for current peak value n=30 rated value | 3.1 kVA |
| up to 690 V for current peak value n=30 rated value | 4 kVA |
| short-time withstand current in cold operating state up to 40 °C | |
| limited to 1 s switching at zero current maximum | 155 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 111 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 86 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 66 A; Use minimum cross-section acc. to AC-1 rated value |
| Imited to 60 s switching at zero current maximum | 55 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at AC | 10 000 1/h |
| operating frequency | |
| at AC-1 maximum | 1 000 1/h |
| at AC-2 maximum | 750 1/h |
| • at AC-3 maximum | 750 1/h |
| at AC-3e maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | |

| • at 50 Hz rated value | 230 V |
|---|---|
| at 60 Hz rated value | 230 V |
| operating range factor control supply voltage rated | |
| value of magnet coil at AC at 50 Hz | 0.8 1.1 |
| | 0.85 1.1 |
| • at 60 Hz | 1.1 05.0 |
| apparent pick-up power of magnet coil at AC | 07.)/A |
| • at 50 Hz | 27 VA |
| • at 60 Hz | 24.3 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.8 |
| • at 60 Hz | 0.75 |
| apparent holding power of magnet coil at AC | |
| • at 50 Hz | 4.2 VA |
| • at 60 Hz | 3.3 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.25 |
| • at 50 Hz | 0.25 |
| | 0.20 |
| closing delay ● at AC | 9 35 ms |
| | ช 50 1118 |
| opening delay | 7 10 mg |
| • at AC | 7 13 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 | 1A |
| at 125 V rated value | 0.9 A |
| at 220 V rated value | 0.3 A |
| at 600 V rated value | 0.1 A |
| | 1 faulty switching per 100 million (17 V, 1 mA) |
| contact reliability of auxiliary contacts | |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | 7.0.4 |
| at 480 V rated value | 7.6 A |
| at 600 V rated value | 9 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.33 hp |
| — at 230 V rated value | 1 hp |
| for 3-phase AC motor | |
| — at 200/208 V rated value | 2 hp |

| at 220/220 M rated water | 2 hn |
|--|--|
| - at 220/230 V rated value | 3 hp |
| - at 460/480 V rated value | 5 hp |
| — at 575/600 V rated value | 7.5 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| • for short-circuit protection of the main circuit | |
| — with type of coordination 1 required | gG: 35A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) |
| — 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 | gG: 10 A (500 V, 1 kA) |
| required | |
| Installation/ mounting/ dimensions | |
| mounting position | +/-180° rotation possible on vertical mounting surface; can be tilted |
| fastening method | forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm standard mounting rail |
| side-by-side mounting | according to DIN EN 60715 Yes |
| height | 70 mm |
| width | 45 mm |
| depth | 73 mm |
| required spacing | |
| with side-by-side mounting | |
| with side-by-side mounting forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | 0 mm |
| for grounded parts forwards | 10 mm |
| | 10 mm |
| — upwards | 6 mm |
| — at the side | |
| — downwards | 10 mm |
| for live parts | 10 |
| — forwards | 10 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 6 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| • for main current circuit | spring-loaded terminals |
| for auxiliary and control circuit | spring-loaded terminals |
| at contactor for auxiliary contacts | Spring-type terminals |
| of magnet coil | Spring-type terminals |
| type of connectable conductor cross-sections | |
| for main contacts | |
| — solid | 2x (0.5 4 mm ²) |
| — solid or stranded | 2x (0,5 4 mm ²) |
| finely stranded with core end processing | 2x (0.5 2.5 mm ²) |
| finely stranded without core end processing | 2x (0.5 2.5 mm ²) |
| at AWG cables for main contacts | 2x (20 12) |
| connectable conductor cross-section for main contacts | |
| solid | 0.5 4 mm² |
| stranded | 0.5 4 mm ² |
| finely stranded with core end processing | 0.5 2.5 mm ² |
| finely stranded with one end processing finely stranded without core end processing | 0.5 2.5 mm ² |
| connectable conductor cross-section for auxiliary contacts | |
| solid or stranded | 0.5 4 mm² |
| finely stranded with core end processing | 0.5 2.5 mm ² |
| finely stranded without core end processing | 0.5 2.5 mm² |
| · • | |

| type of connectable conductor cross-sections - enside or shands - enside or shands - inde y stranded without core end processing - inde y stranded without core en | type of connectable | | | - | | | |
|--|---|--|----------------|------------------------------|------------------------|-----|--|
| - existion retarmended - existion retarmended - inderivational differencessing | | e conductor cross-sect | ions | | | | |
| - Infer stranded with core and processing - Infer stranded with core and processing - at AVG cables for auxiliary contacts - at AVG cables for auxiliary contacts - at AVG cables for auxiliary contacts - at Cables for aux | for auxiliary co | ntacts | | | | | |
| | — solid or st | randed | | 2x (0,5 4 mm ²) | | | |
| • et AVG cables for auxiliary contacts 2× (20 12) • AVG number as coded connectable conductor cress extern 20 12 • for main contacts 20 12 • for main contacts 20 12 • auxiliary contacts 20 12 • auxiliary contacts 20 12 • auxiliary contacts 20 12 • for main contact according to IS 0507 4-1 Yes; with 3RH29 • output the dual rate according to SN 31020 73 % • output the dual rate according to SN 31020 73 % • output the dual rate according to SN 31020 73 % • output the fort according to ISC 0000 73 % • auxiliary contacts 73 % • auxiliary contact according to SN 31020 73 % • auxiliary forte test interval or service life according to IEC 0002 73 % • auxiliary forte test interval or service life according to IEC 0002 73 % • auxiliary forte test interval or service life according to IEC 0002 73 % • auxiliary fortection and the fort according to IEC 0002 73 % • auxiliary fortection and the fort according to IEC 0002 74 % • auxiliary fortection and the fort according to IEC 0002 74 % • auxiliary fortection and the fort according to IEC 0002 74 % • auxiliary fortection and testaccording to IEC 0002 74 % | — finely stra | nded with core end proc | essing | 2x (0.5 2.5 mm²) | | | |
| AWE inturbur as coded connectable conductor cross 2012 i- or nain contacts 20 | — finely stra | nded without core end p | rocessing | 2x (0.5 2.5 mm²) | | | |
| section 0.000 i-or naix contacts 20 12 i-or auxiliary contacts 20 12 afay related data 100000 proprioduct function 100000 i-minor contact according to SN 31920 100000 proprioduct function 100000 i-minor contact according to SN 31920 100000 proprioduct function 100000 i-with high demand rate according to SN 31920 100000 i-with high demand rate according to SN 31920 100000 i-with high demand rate according to SN 31920 20 y i-with high demand rate according to SN 31920 100 FT i-with high demand rate according to IEC 60529 100 FT i-stably-related switching OFF 20 y i-contact approvate 100 FT i-contact approvate </td <td> at AWG cables </td> <td>s for auxiliary contacts</td> <td></td> <td>2x (20 12)</td> <td></td> <td></td> | at AWG cables | s for auxiliary contacts | | 2x (20 12) | | | |
| 10 main contacts 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 2012 20 | | | uctor cross | | | | |
| i- or auxiliary contacts i- for auxiliary contact for on the front according to IEC 60529 i- for auxiliary contact for on the front according to IEC 60529 i- for auxiliary contact for on the front according to IEC 60529 i- for auxiliary contact for on the front according to IEC 60529 i- for auxiliary contact for on the front according to IEC 60529 i- for auxiliary contact for | section | | | | | | |
| Entry rolated data Decide data product function entrice contact according to IEC 60947-4-1 Yes; with 3RH29 B10 wake with high demand rate according to SN 31920 1000 000 proportion of demand rate according to SN 31920 40 % Filter rate [F1] with low demand rate according to SN 31920 73 % Filter rate [F1] with low demand rate according to SN 31920 100 RT Eld value with high demand rate according to SN 31920 73 % Filter rate [F1] with low demand rate according to IEC 60529 100 RT Site of provide stiller rate of F1 with low demand rate according to IEC 60529 100 RT Site of provide stiller rate [F1] with low demand rate according to IEC 60529 100 RT Site of provide stiller rate [F1] with low demand rate according to IEC 60529 100 RT Site of provide stiller rate of Provide stiller rate according to IEC 60529 100 RT Site of provide stiller rate of | for main contact | cts | | 20 12 | | | |
| product function • minor contact according to IEC 80847-4.1 • with low demand rate according to SN 31920 • with low demand rate according to IEC 60529 • safely-related switching OFF • safely Safely Of • safely Safely | for auxiliary co | ntacts | | 20 12 | | | |
| product function • minor contact according to IEC 80847-4.1 • with low demand rate according to SN 31920 • with low demand rate according to IEC 60529 • safely-related switching OFF • safely Safely Of • safely Safely | Safety related data | | | | | | |
| • minor contact according to EC 60947-4-1 Yes; with 3RH29 E10 value with high demand rate according to SN 31920 1000 000 • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 73 % faller rate [FT] with low demand rate according to SN 31920 73 % 100 FT 20 y T1 value for proof less Interval or service life according to EC 60529 100 FT Suitability for use | | | | | | | |
| B10 velue with high demand rate according to SN 31920 1 000 000 • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to SN 31920 40 % • with high demand rate according to EC 90 y • reprotection cases IP on the front according to IEC 90 y • rest descriptions 100 EIT • rest descriptions 100 Eit <t< td=""><td></td><td>according to IEC 60947-</td><td>-4-1</td><td>Yes: with 3RH29</td><td></td><td></td></t<> | | according to IEC 60947- | -4-1 | Yes: with 3RH29 | | | |
| proportion of dangerous failures 40 % • with high demand rate according to SN 31920 73 % failure rate [FIT] with low demand rate according to SN 31920 73 % 100 FIT 20 y Fit demand rate according to SN 31920 20 y 100 FIT 20 y Protection class IP on the front according to IEC 60529 Inger-safe, for vertical contact from the front safety-fielded switching OFF Yes vertificates/ approvals Confirmation Centre Safety/Safety of Machinery Declaration of Conformity Test Certificates EMC Functional Safety/Safety of Machinery Safety/Safety of Machinery Declaration of Conformity EMC Functional Safety/Safety of Machinery Machinery Declaration of Conformity Marine / Shipping Type Examination Conformity Safety/Safety of Machinery Safety/Safety of Machinery Safety/Safet | | - | | | | | |
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| Marine / Shipping other Output Confirmation Confirmation VDE Confirmation | EMC | Safety/Safety of Machinery | CE | | Special Test Certific- | | |
| Confirmation Confirmation | RCM | Safety/Safety of Machinery | CE | | Special Test Certific- | | |
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| urther information | Marine / Shipping | Safety/Safety of Machinery Type Examination Certificate | EG-Konf. | Lloyds Register | Special Test Certific- | | |
| | Marine / Shipping | Safety/Safety of Machinery Type Examination Certificate | EG-Konf. | Lloyds Register Us | Special Test Certific- | | |

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=3RT2016-2AP01 Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2AP01

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AP01

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2016-2AP01&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AP01/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2AP01&objecttype=14&gridview=view1

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