

Combination Starter Non Reversing Fast Bus FLA Range 1.8-2.5A 3 Pole 24VDC
Coil S0 Open Type 1NO <(>&<)> 1NC Aux

| | |
|---|-------------------------------|
| product brand name | SIRIUS |
| product designation | non-fused motor starter 3RA2 |
| design of the product | reversing starter |
| manufacturer's article number | |
| • of the supplied contactor | 3RT2024-1BB40 |
| • of the supplied circuit-breakers | 3RV2011-1FA15 |
| • of the supplied RH assembly kit | 3RA2923-1BB1 |
| • of the supplied busbar adapter | 3RA2922-1AA00 |
| • of the supplied link module | 3RA2921-1BA00 |
| • of the supplied standard mounting rail adapter | 3RA2922-1AA00 |
| General technical data | |
| size of the circuit-breaker | S00 |
| size of load feeder | S0 |
| product extension auxiliary switch | Yes |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | 6g / 11 ms |
| mechanical service life (operating cycles) of contactor typical | 10 000 000 |
| type of assignment | 2 |
| Substance Prohibitance (Date) | 03/01/2017 |
| Weight | 1.83 kg |
| Ambient conditions | |
| ambient temperature | |
| • during operation | -20 ... +60 °C |
| • during storage | -50 ... +80 °C |
| • during transport | -55 ... +80 °C |
| Main circuit | |
| number of poles for main current circuit | 3 |
| design of the switching contact | electromechanical |
| adjustable current response value current of the current-dependent overload release | 3.5 ... 5 A |
| operating voltage | |
| • rated value | 690 V |
| • at AC-3 rated value maximum | 690 V |
| operating frequency rated value | 50 ... 60 Hz |
| operational current at AC-3 at 400 V rated value | 3.6 A |
| operating power at AC-3 | |
| • at 400 V rated value | 1 500 W |
| • at 500 V rated value | 2 200 W |
| Control circuit/ Control | |
| control supply voltage at DC rated value | 24 V |
| holding power of magnet coil at DC | 5.9 W |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 3 |
| number of NO contacts for auxiliary contacts | 3 |
| Protective and monitoring functions | |
| trip class | CLASS 10 |
| design of the overload release | thermal (bimetallic) |
| response value current of instantaneous short-circuit trip unit | 65 A |
| UL/CSA ratings | |

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| full-load current (FLA) for 3-phase AC motor | |
| • at 480 V rated value | 4.8 A |
| • at 600 V rated value | 4.55 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 110/120 V rated value | 0.17 hp |
| — at 230 V rated value | 0.5 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 1 hp |
| — at 220/230 V rated value | 1 hp |
| — at 460/480 V rated value | 3 hp |
| — at 575/600 V rated value | 3 hp |
| Short-circuit protection | |
| product function short circuit protection | Yes |
| design of the short-circuit trip | magnetic |
| conditional short-circuit current (I_q) | |
| • at 400 V according to IEC 60947-4-1 rated value | 153 000 A |
| • at 500 V according to IEC 60947-4-1 rated value | 100 000 A |
| Installation/ mounting/ dimensions | |
| mounting position | vertical |
| fastening method | snap-on fastening on 35 mm DIN rail |
| height | 265 mm |
| width | 90 mm |
| depth | 130 mm |
| required spacing | |
| • for grounded parts | |
| — forwards | 10 mm |
| — backwards | 0 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 10 mm |
| — backwards | 0 mm |
| — upwards | 30 mm |
| — downwards | 10 mm |
| — at the side | 9 mm |
| Connections/ Terminals | |
| type of electrical connection for main current circuit | screw-type terminals |
| type of connectable conductor cross-sections for main contacts stranded | 1 ... 10 mm ² , 2x (2.5 ... 6 mm ²) |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 1 ... 6 mm ² |
| Safety related data | |
| proportion of dangerous failures with high demand rate according to SN 31920 | 73 % |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| Electrical Safety | |
| 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 |
| Approvals Certificates | |
| General Product Approval | |
| For use in hazard-ous locations | |

[Confirmation](#)



Test Certificates

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[Special Test Certificate](#)



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| | | | Special Test Certificate |
| | | | Transport Information |

Environment

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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=3RA2225-1FB24-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-1FB24-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1FB24-0BB4>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-1FB24-0BB4&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1FB24-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1FB24-0BB4&objecttype=14&gridview=view1>

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