

Fuseless motor starter Direct start 600VAC Size S0 1.4-2A 24V DC screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP) 1NO+1NC (contactor)

| | |
|--|-------------------------------|
| product brand name | SIRIUS |
| product designation | non-fused motor starter 3RA2 |
| design of the product | direct starter |
| manufacturer's article number | |
| • of the supplied contactor | 3RT2023-1BB40 |
| • of the supplied circuit-breakers | 3RV2011-1BA15 |
| • of the supplied busbar adapter | 8US1251-5NT10 |
| • of the supplied link module | 3RA2921-1BA00 |
| 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 |
| Weight | 1.25 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 | 1.4 ... 2 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 | 1.9 A |
| operating power at AC-3 | |
| • at 400 V rated value | 750 W |
| • at 500 V rated value | 750 W |
| • at 690 V rated value | 1 100 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 | 2 |
| number of NO contacts for auxiliary contacts | 2 |
| Protective and monitoring functions | |
| trip class | CLASS 10 |
| design of the overload release | thermal (bimetallic) |
| response value current of instantaneous short-circuit trip unit | 26 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |

| | | | |
|---|--|-------|-----------------|
| <ul style="list-style-type: none">• at 480 V rated value• at 600 V rated value | 1.63 A | | |
| | 1.72 A | | |
| yielded mechanical performance [hp] <ul style="list-style-type: none">• for single-phase AC motor<ul style="list-style-type: none">— at 230 V rated value• for 3-phase AC motor<ul style="list-style-type: none">— at 460/480 V rated value— at 575/600 V rated value | 0.13 hp | | |
| | 0.75 hp | | |
| | 1 hp | | |
| Short-circuit protection | | | |
| product function short circuit protection | Yes | | |
| design of the short-circuit trip | magnetic | | |
| conditional short-circuit current (I_q) <ul style="list-style-type: none">• at 400 V according to IEC 60947-4-1 rated value | 153 000 A | | |
| Installation/ mounting/ dimensions | | | |
| mounting position | vertical | | |
| fastening method | for snapping onto 60 mm busbar systems | | |
| height | 260 mm | | |
| width | 45 mm | | |
| depth | 165 mm | | |
| required spacing <ul style="list-style-type: none">• for grounded parts<ul style="list-style-type: none">— forwards— backwards— upwards— at the side— downwards• for live parts<ul style="list-style-type: none">— forwards— backwards— upwards— downwards— at the side | 10 mm | | |
| | 0 mm | | |
| | 30 mm | | |
| | 9 mm | | |
| | 10 mm | | |
| | 10 mm | | |
| | 0 mm | | |
| | 30 mm | | |
| | 10 mm | | |
| | 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 mm², 2x (2.5 ... 6 mm²) | | |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 1 ... 6 mm² | | |
| 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 hazardous locations | other | Dangerous goods |


[Confirmation](#)
[Transport Information](#)

Environment

[Environmental Confirmations](#)

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=3RA2125-1BD23-0BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2125-1BD23-0BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1BD23-0BB4>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-1BD23-0BB4&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1BD23-0BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-1BD23-0BB4&objecttype=14&gridview=view1>

last modified:

12/15/2020 

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Siemens:](#)

[3RA21251BD230BB4](#)