

Fuseless motor starter Reversing operation 600VAC Size S0 3.5-5A 110/120VAC 50/60Hz screw connection For 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP) 1NO+1NC (per contactor)

|  |                               |
|--|-------------------------------|
| <b>product brand name</b>  | SIRIUS                        |
| <b>product designation</b>   | non-fused motor starter 3RA2  |
| <b>design of the product</b>   | reversing starter             |
| <b>manufacturer's article number</b>   |                               |
| • of the supplied contactor  | <a href="#">3RT2024-1AK60</a> |
| • of the supplied circuit-breakers   | <a href="#">3RV2011-1FA15</a> |
| • of the supplied RH assembly kit  | <a href="#">3RA2923-1BB1</a>  |
| • of the supplied busbar adapter   | <a href="#">3RA2922-1AA00</a> |
| • of the supplied link module  | <a href="#">3RA2921-1AA00</a> |
| • of the supplied standard mounting rail adapter   | <a href="#">3RA2922-1AA00</a> |
| <b>General technical data</b>  |                               |
| <b>size of the circuit-breaker</b>   | S00                           |
| <b>size of load feeder</b>   | S0                            |
| product extension auxiliary switch   | Yes                           |
| insulation voltage with degree of pollution 3 at AC rated value                            | 690 V                         |
| <b>degree of pollution</b>   | 3                             |
| <b>surge voltage resistance rated value</b>  | 6 kV                          |
| <b>shock resistance according to IEC 60068-2-27</b>  | 6g / 11 ms                    |
| mechanical service life (operating cycles) of contactor typical                            | 10 000 000                    |
| <b>type of assignment</b>  | 2                             |
| <b>Substance Prohibitance (Date)</b>   | 03/01/2017                    |
| <b>Weight</b>  | 1.45 kg                       |
| <b>Ambient conditions</b>  |                               |
| <b>ambient temperature</b>   |                               |
| • during operation   | -20 ... +60 °C                |
| • during storage   | -50 ... +80 °C                |
| • during transport   | -55 ... +80 °C                |
| <b>Main circuit</b>  |                               |
| <b>number of poles for main current circuit</b>  | 3                             |
| <b>design of the switching contact</b>   | electromechanical             |
| <b>adjustable current response value current of the current-dependent overload release</b> | 3.5 ... 5 A                   |
| <b>operating voltage</b>   |                               |
| • rated value  | 690 V                         |
| • at AC-3 rated value maximum  | 690 V                         |
| <b>operating frequency rated value</b>   | 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                       |
| <b>Control circuit/ Control</b>  |                               |
| <b>control supply voltage at AC</b>  |                               |
| • at 50 Hz rated value   | 110 V                         |
| • at 50 Hz rated value   | 88 ... 121 V                  |
| • at 60 Hz rated value   | 120 V                         |
| • at 60 Hz rated value   | 96 ... 132 V                  |
| <b>apparent holding power of magnet coil at AC</b>   | 7.2 VA                        |
| <b>inductive power factor with the holding power of the coil</b>                           | 0.28                          |
| <b>Auxiliary circuit</b>   |                               |
| <b>number of NC contacts for auxiliary contacts</b>  | 3                             |

|  |  |
|--|--|
| number of NO contacts for auxiliary contacts   | 3  |
| <b>Protective and monitoring functions</b>   |  |
| trip class   | CLASS 10   |
| design of the overload release   | thermal (bimetallic)                                       |
| response value current of instantaneous short-circuit trip unit                                | 65 A   |
| <b>UL/CSA ratings</b>  |  |
| 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   |
| <b>Short-circuit protection</b>  |  |
| product function short circuit protection  | Yes  |
| design of the short-circuit trip   | magnetic   |
| conditional short-circuit current (I <sub>q</sub> )  |  |
| • 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  |
| <b>Installation/ mounting/ dimensions</b>  |  |
| mounting position  | vertical   |
| fastening method   | snap-on fastening on 35 mm DIN rail                        |
| height   | 265 mm   |
| width  | 90 mm  |
| depth  | 120 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   |
| <b>Connections/ Terminals</b>  |  |
| type of electrical connection for main current circuit   | screw-type terminals                                       |
| type of connectable conductor cross-sections for main contacts stranded                        | 1 ... 10 mm <sup>2</sup> , 2x (2.5 ... 6 mm <sup>2</sup> ) |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 1 ... 6 mm <sup>2</sup>                                    |
| <b>Safety related data</b>   |  |
| 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  |
| <b>Electrical Safety</b>   |  |
| 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           |
| <b>Approvals Certificates</b>  |  |
| General Product Approval   | For use in hazard-ous locations                            |



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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=3RA2225-1FB24-0AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2225-1FB24-0AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1FB24-0AK6>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2225-1FB24-0AK6&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2225-1FB24-0AK6&lang=en)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2225-1FB24-0AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2225-1FB24-0AK6&objecttype=14&gridview=view1>

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