SIEMENS

## Data sheet 3RA2125-0KD23-0AK6

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|---|---|
| | Fuseless motor starter Direct start 600VAC Size S0 0.9-1.25A 110/120VAC 50/60HZ 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 | 3RT2023-1AK60 |
| ● of the supplied circuit-breakers | 3RV2011-0KA15 |
| ● of the supplied busbar adapter | 8US1251-5NT10 |
| ● of the supplied link module | 3RA2921-1AA00 |
| **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 |
| **Weight** | 1.06 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** | 0.9 ... 1.25 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 | 1.1 A |
| operating power at AC-3 | |
| ● at 400 V rated value | 370 W |
| ● at 500 V rated value | 550 W |
| ● at 690 V rated value | 750 W |
| **Control circuit/ Control** | |
| **control supply voltage at AC** | |
| ● 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 |
| **apparent holding power of magnet coil at AC** | 7.2 VA |
| **inductive power factor with the holding power of the coil** | 0.28 |
| **Auxiliary circuit** | |
| **number of NC contacts for auxiliary contacts** | 2 |
| **number of NO contacts for auxiliary contacts** | 2 |


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| **Protective and monitoring functions** | |
| **trip class** | CLASS 10 |
| **design of the overload release** | thermal (bimetallic) |
| response value current of instantaneous short-circuit trip unit | 16.25 A |
| **UL/CSA ratings** | |
| **full-load current (FLA) for 3-phase AC motor** | |
| ● at 480 V rated value | 1.19 A |
| ● at 600 V rated value | 1.25 A |
| **yielded mechanical performance [hp]** | |
| ● for 3-phase AC motor | |
| — at 460/480 V rated value | 0.5 hp |
| — at 575/600 V rated value | 0.5 hp |
| **Short-circuit protection** | |
| **product function short circuit protection** | Yes |
| **design of the short-circuit trip** | magnetic |
| **conditional short-circuit current (Iq)** | |
| ● 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** | 155 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 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 hazard-ous locations | other |
|---|---|---|---|---|
| CE EG-Konf. | UK CA | Confirmation | EAC | Ex ATEX | Confirmation |

**Environment**

Environmental Con-


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firmations

## 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=3RA2125-0KD23-0AK6
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2125-0KD23-0AK6
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-0KD23-0AK6
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-0KD23-0AK6&lang=en
**Characteristic: Tripping characteristics, I²t, Let-through current**
https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-0KD23-0AK6/char
**Further characteristics (e.g. electrical endurance, switching frequency)**
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-0KD23-0AK6&objecttype=14&gridview=view1

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