SIEMENS

## Data sheet 3RA2110-1FA15-1AP0

Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00 3.50...5.00 A 230 V AC screw terminal for installation on standard mounting rail Type of coordination 1, Iq = 150 kA 1 NO (contactor)

| | |
|---|---|
| **product brand name** | SIRIUS |
| **product designation** | Direct (on-line) starter |
| **design of the product** | for standard rail or screw mounting |
| **product type designation** | 3RA21 |
| **manufacturer's article number** | |
| ● of the supplied contactor | 3RT2015-1AP01 |
| ● of the supplied circuit-breakers | 3RV2011-1FA10 |
| ● of the supplied link module | 3RA1921-1DA00 |
| **General technical data** | |
| **size of the circuit-breaker** | S00 |
| **size of load feeder** | S00 |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| **surge voltage resistance rated value** | 6 kV |
| **degree of protection NEMA rating** | other |
| shock resistance according to IEC 60068-2-27 | 6g / 11 ms |
| mechanical service life (switching cycles) of contactor typical | 30 000 000 |
| **type of assignment** | 1 |
| **type of protection according to ATEX directive 2014/34/EU** | Ex II (2) GD |
| certificate of suitability according to ATEX directive 2014/34/EU | DMT 02 ATEX F 001 |
| **Substance Prohibitance (Date)** | 10/01/2009 |
| **Ambient conditions** | |
| **ambient temperature** | |
| ● during operation | -20 ... +60 °C |
| ● during storage | -50 ... +80 °C |
| ● during transport | -50 ... +80 °C |
| **temperature compensation** | -20 ... +60 °C |
| relative humidity during operation | 10 ... 95 % |
| **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 |

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|---|---|
| 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 |
| **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 50 Hz rated value | 230 ... 230 V |
| ● at 60 Hz rated value | 230 V |
| ● at 60 Hz rated value | 230 ... 230 V |
| **apparent holding power of magnet coil at AC** | 4.2 VA |
| **Auxiliary circuit** | |
| **product extension auxiliary switch** | Yes |
| **Protective and monitoring functions** | |
| **trip class** | CLASS 10 |
| **design of the overload release** | thermal (bimetallic) |
| **UL/CSA ratings** | |
| **full-load current (FLA) for 3-phase AC motor** | |
| ● at 480 V rated value | 4.8 A |
| **yielded mechanical performance [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 (Iq)** | |
| ● at 400 V according to IEC 60947-4-1 rated value | 150 000 A |
| **Installation/ mounting/ dimensions** | |
| **mounting position** | vertical |
| **fastening method** | screw and snap-on mounting onto 35 mm standard mounting rail |
| **height** | 167 mm |
| **width** | 45 mm |
| **depth** | 97 mm |
| **required spacing** | |
| ● for grounded parts | |
| — forwards | 20 mm |
| — backwards | 0 mm |
| — upwards | 50 mm |
| — at the side | 20 mm |
| — downwards | 10 mm |
| ● for live parts | |
| — forwards | 20 mm |
| — backwards | 0 mm |
| — upwards | 50 mm |
| — downwards | 10 mm |
| — at the side | 20 mm |
| **Connections/ Terminals** | |
| **type of electrical connection** | |
| ● for main current circuit | screw-type terminals |
| ● for auxiliary and control circuit | screw-type terminals |
| **Safety related data** | |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| **proportion of dangerous failures** | |
| ● with high demand rate according to SN 31920 | 73 % |
| **touch protection on the front according to IEC 60529** | finger-safe, for vertical contact from the front |
| **Communication/ Protocol** | |

| | |
|---|---|
| **protocol is supported** | |
| • PROFINET IO protocol | No |
| • PROFIsafe protocol | No |
| protocol is supported AS-Interface protocol | No |

## Certificates/ approvals

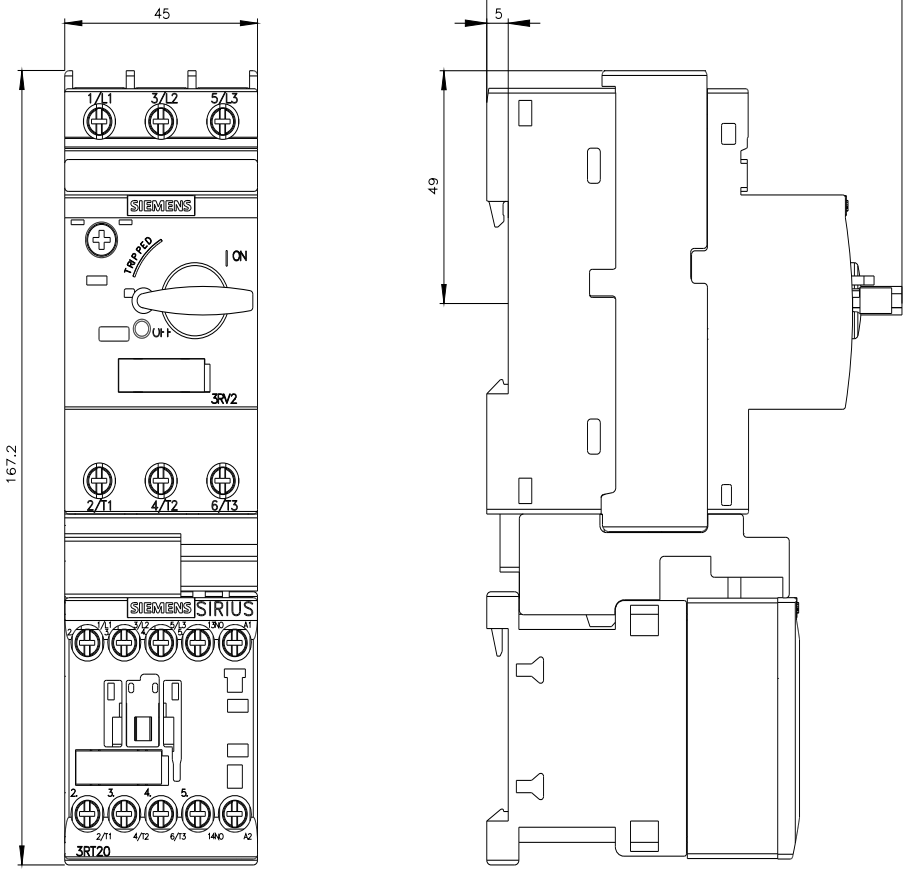
| General Product Approval | | | | For use in hazard-ous locations | Declaration of Conformity |
|---|---|---|---|---|---|
| CSA | Confirmation | UL | EAC | ATEX | EG-Konf. |

| Declaration of Conformity | Test Certificates | | Marine / Shipping | | |
|---|---|---|---|---|---|
| UK CA | Special Test Certific-ate | Type Test Certific-ates/Test Report | ABS | BUREAU VERITAS | LRS |

| Marine / Shipping | | | | other | Railway |
|---|---|---|---|---|---|
| PRS | RINA | RMRS | DNV·GL | Confirmation | Vibration and Shock |

## Further information

**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=3RA2110-1FA15-1AP0
**Cax online generator**
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1FA15-1AP0
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AP0
**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1FA15-1AP0&lang=en
**Characteristic: Tripping characteristics, I²t, Let-through current**
https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AP0/char
**Further characteristics (e.g. electrical endurance, switching frequency)**
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1FA15-1AP0&objecttype=14&gridview=view1

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