



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2 35...45 A
20 ... 33 V AC/DC screw terminal for installation on standard mounting rail
(also fulfills type of coordination 1) Type of coordination 2, I_q = 150 kA 1
NO+1 NC (contactor) with circuit (integrated)

| | |
|--|---|
| 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 | |
| <ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied link module | 3RT2036-1NB30 3RV2032-4VA10 3RA2931-1AA00 |
| General technical data | |
| size of the circuit-breaker | S2 |
| size of load feeder | S2 |
| 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 | 10 000 000 |
| type of assignment | 2 |
| 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 Prohibition (Date) | 03/01/2017 |
| Ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation • during storage • during transport | -20 ... +60 °C -50 ... +80 °C -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 | 35 ... 45 A |
| operating voltage | |
| <ul style="list-style-type: none"> • rated value • at AC-3 rated value maximum | 690 V 690 V |
| operating frequency rated value | 50 ... 60 Hz |

| | | |
|--|---|----------------------------------|
| operational current at AC-3 at 400 V rated value | 45 A | |
| operating power at AC-3 | | |
| • at 230 V rated value | 15 000 W | |
| • at 400 V rated value | 22 000 W | |
| Control circuit/ Control | | |
| type of voltage of the control supply voltage | AC/DC | |
| control supply voltage at AC | | |
| • at 50 Hz rated value | 20 ... 33 V | |
| • at 60 Hz rated value | 20 ... 33 V | |
| control supply voltage at DC | | |
| • rated value | 20 ... 33 V | |
| inductive power factor with the holding power of the coil | 1 | |
| holding power of magnet coil at DC | 1 W | |
| Auxiliary circuit | | |
| product extension auxiliary switch | Yes | |
| Protective and monitoring functions | | |
| trip class | CLASS 10 | |
| design of the overload release | thermal (bimetallic) | |
| response value current of instantaneous short-circuit trip unit | 650 A | |
| 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 | 150 000 A | |
| Installation/ mounting/ dimensions | | |
| mounting position | vertical, horizontal | |
| fastening method | screw and snap-on mounting to two 35 mm standard mounting rails | |
| height | 274 mm | |
| width | 55 mm | |
| depth | 150 mm | |
| required spacing | | |
| • for grounded parts | | |
| — forwards | 32 mm | |
| — backwards | 0 mm | |
| — upwards | 50 mm | |
| — at the side | 10 mm | |
| — downwards | 10 mm | |
| • for live parts | | |
| — forwards | 32 mm | |
| — backwards | 0 mm | |
| — upwards | 50 mm | |
| — downwards | 10 mm | |
| — at the side | 10 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 | | |
| 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 | |
| • PROFI-safe protocol | No | |
| protocol is supported AS-Interface protocol | No | |
| Certificates/ approvals | | |
| General Product Approval | For use in hazardous locations | Declaration of Conformity |



[Confirmation](#)



EG-Konf.

| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|
|---------------------------|-------------------|-------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



LRS

| Marine / Shipping | other | Railway |
|-------------------|-------|---------|
|-------------------|-------|---------|



[Confirmation](#)

[Vibration and Shock](#)

| Dangerous Good |
|----------------|
|----------------|

[Transport Information](#)

| Further information |
|---------------------|
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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=3RA2150-4VA36-0NB3>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2150-4VA36-0NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4VA36-0NB3>

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

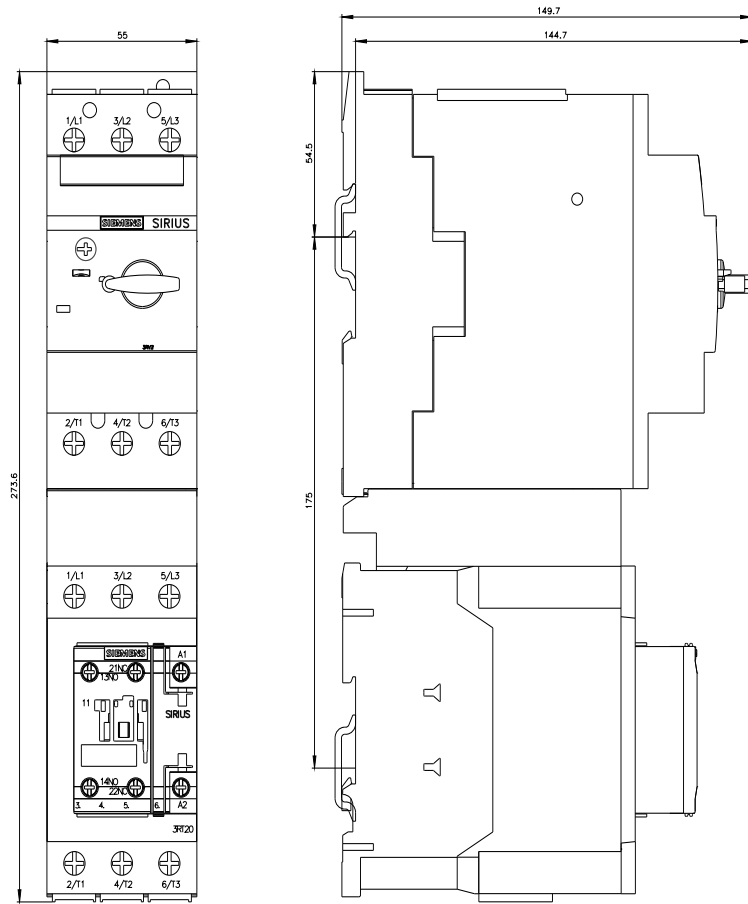
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2150-4VA36-0NB3&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2150-4VA36-0NB3/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2150-4VA36-0NB3&objecttype=14&gridview=view1>



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