



Load feeder fuseless, Direct-on-line starting 400 V AC, Size S2  
32...40 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<sub>q</sub> = 100 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      |                                     |
| • of the supplied contactor        | <a href="#">3RT2035-1NB30</a>       |
| • of the supplied circuit-breakers | <a href="#">3RV2031-4UA10</a>       |
| • of the supplied link module      | <a href="#">3RA2931-1AA00</a>       |

| 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       |
| Protection class IP                            |            |
| • on the front                                 | IP20       |
| • of the terminal                              | IP00       |
| Shock resistance                               |            |
| • acc. to IEC 60068-2-27                       | 6g / 11 ms |

|                                                                   |                   |
|-------------------------------------------------------------------|-------------------|
| <b>Mechanical service life (switching cycles)</b>                 |                   |
| • of contactor typical                                            | 10 000 000        |
| <b>Type of assignment</b>                                         | 2                 |
| <b>Type of protection according to ATEX directive 2014/34/EU</b>  | Ex II (2) GD      |
| Certificate of suitability according to ATEX directive 2014/34/EU | DMT 02 ATEX F 001 |

#### Ambient conditions

|                                    |                |
|------------------------------------|----------------|
| <b>Temperature compensation</b>    | -20 ... +60 °C |
| Relative humidity during operation | 10 ... 95 %    |

#### Main circuit

|                                                                                   |                   |
|-----------------------------------------------------------------------------------|-------------------|
| <b>Number of poles for main current circuit</b>                                   | 3                 |
| <b>Design of the switching contact</b>                                            | electromechanical |
| <b>Adjustable pick-up value current of the current-dependent overload release</b> | 32 ... 40 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      |
| <b>Operating current</b>                                                          |                   |
| • at AC-3                                                                         |                   |
| — at 400 V rated value                                                            | 35 A              |
| <b>Operating power</b>                                                            |                   |
| • at AC-3                                                                         |                   |
| — at 230 V rated value                                                            | 11 000 W          |
| — at 400 V rated value                                                            | 18 500 W          |

#### Control circuit/ Control

|                                                                  |             |
|------------------------------------------------------------------|-------------|
| <b>Type of voltage of the control supply voltage</b>             | AC/DC       |
| <b>Control supply voltage at AC</b>                              |             |
| • at 50 Hz rated value                                           | 20 ... 33 V |
| • at 60 Hz rated value                                           | 20 ... 33 V |
| <b>Control supply voltage at DC</b>                              |             |
| • rated value                                                    | 20 ... 33 V |
| <b>Inductive power factor with the holding power of the coil</b> | 1           |
| <b>Holding power of magnet coil at DC</b>                        | 1 W         |

#### Auxiliary circuit

|                                           |     |
|-------------------------------------------|-----|
| <b>Product extension Auxiliary switch</b> | Yes |
|-------------------------------------------|-----|

#### Protective and monitoring functions

|                                       |                      |
|---------------------------------------|----------------------|
| <b>Trip class</b>                     | CLASS 10             |
| <b>Design of the overload release</b> | thermal (bimetallic) |

|                                                          |                                                                        |
|----------------------------------------------------------|------------------------------------------------------------------------|
| <b>Response value current</b>                            |                                                                        |
| • of instantaneous short-circuit trip unit               | 585 A                                                                  |
| <b>Short-circuit protection</b>                          |                                                                        |
| <b>Product function Short circuit protection</b>         | Yes                                                                    |
| <b>Design of the short-circuit trip</b>                  | magnetic                                                               |
| <b>Conditional short-circuit current (I<sub>q</sub>)</b> |                                                                        |
| • at 400 V acc. to IEC 60947-4-1 rated value             | 100 000 A                                                              |
| <b>Installation/ mounting/ dimensions</b>                |                                                                        |
| <b>Mounting position</b>                                 | vertical, horizontal                                                   |
| <b>Mounting type</b>                                     | Screw-fixing and snap-on mounting to two 35 mm standard mounting rails |
| <b>Height</b>                                            | 274 mm                                                                 |
| <b>Width</b>                                             | 55 mm                                                                  |
| <b>Depth</b>                                             | 150 mm                                                                 |
| <b>Required spacing</b>                                  |                                                                        |
| • 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                                                                  |
| <b>Connections/ Terminals</b>                            |                                                                        |
| <b>Type of electrical connection</b>                     |                                                                        |
| • for main current circuit                               | screw-type terminals                                                   |
| <b>Certificates/ approvals</b>                           |                                                                        |

| General Product Approval | For use in hazardous locations | Declaration of Conformity |
|--------------------------|--------------------------------|---------------------------|
|--------------------------|--------------------------------|---------------------------|



CSA



UL



ATEX



EG-Konf.

[Miscellaneous](#)

| Test Certificates | Marine / Shipping |
|-------------------|-------------------|
|-------------------|-------------------|

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



LRS



PRS



RINA

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



RMRS



DNVGL.COM/AF

[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=3RA2130-4UA35-0NB3>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2130-4UA35-0NB3>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2130-4UA35-0NB3>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RA2130-4UA35-0NB3&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2130-4UA35-0NB3&lang=en)

**Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2130-4UA35-0NB3/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2130-4UA35-0NB3&objecttype=14&gridview=view1>



