

Load feeder fuseless, Direct-on-line starting 400 V AC, Size S00
 3.50...5.00 A 110/120 V AC, 50/60 Hz screw terminal for installation
 on standard mounting rail Type of coordination 1, I_q = 150 kA 1 NO
 (contactor)



| | |
|--|--|
| Product brand name | SIRIUS |
| Product designation | non-fused load feeders 3RA2 |
| Design of the product | direct starter |
| Manufacturer's article number | |
| <ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied link module | <p>3RT2015-1AK61</p> <p>3RV2011-1FA10</p> <p>3RA1921-1DA00</p> |

| General technical data | |
|--|-------------------------|
| Size of the circuit-breaker | S00 |
| Size of load feeder | S00 |
| Product extension | |
| <ul style="list-style-type: none"> • Auxiliary switch | Yes |
| Insulation voltage | |
| <ul style="list-style-type: none"> • with degree of pollution 3 at AC rated value | 690 V |
| Degree of pollution | 3 |
| Surge voltage resistance rated value | 6 kV |
| Protection class IP | |
| <ul style="list-style-type: none"> • on the front • of the terminal | <p>IP20</p> <p>IP00</p> |

| | |
|--|------------|
| Shock resistance | |
| <ul style="list-style-type: none"> • acc. to IEC 60068-2-27 | 6g / 11 ms |
| Mechanical service life (switching cycles) | |
| <ul style="list-style-type: none"> • of contactor typical | 30 000 000 |
| Type of assignment | 1 |

Main circuit

| | |
|---|-------------------------------|
| Number of poles for main current circuit | 3 |
| Design of the switching contact | electromechanical |
| Adjustable pick-up value current of the current-dependent overload release | 3.5 ... 5 A |
| Operating voltage | |
| <ul style="list-style-type: none"> • rated value | 690 V |
| <ul style="list-style-type: none"> • at AC-3 rated value maximum | 690 V |
| Operating frequency rated value | 50 ... 60 Hz |
| Operating current | |
| <ul style="list-style-type: none"> • at AC-3 — at 400 V rated value | 3.6 A |
| Operating power | |
| <ul style="list-style-type: none"> • at AC-3 — at 400 V rated value — at 500 V rated value — at 690 V rated value | 1 500 W 2 200 W 3 000 W |

Control circuit/ Control

| | |
|--|----------------|
| Control supply voltage at AC | |
| <ul style="list-style-type: none"> • at 50 Hz rated value • at 60 Hz rated value | 110 V 120 V |
| Apparent holding power of magnet coil at AC | 4.2 V·A |

Protective and monitoring functions

| | |
|--|----------------------|
| Trip class | CLASS 10 |
| Design of the overload release | thermal (bimetallic) |
| Response value current | |
| <ul style="list-style-type: none"> • of instantaneous short-circuit trip unit | 65 A |

UL/CSA ratings

| | |
|---|-------------------|
| Full-load current (FLA) for three-phase AC motor | |
| <ul style="list-style-type: none"> • at 480 V rated value • at 600 V rated value | 4.8 A 4.55 A |
| Yielded mechanical performance [hp] | |
| <ul style="list-style-type: none"> • for single-phase AC motor — at 110/120 V rated value — at 230 V rated value • for three-phase AC motor | 0.17 hp 0.5 hp |

| | |
|----------------------------|------|
| — 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 (I_q) | |
| • at 690 V acc. to IEC 60947-4-1 rated value | 4 000 A |
| • at 400 V acc. to IEC 60947-4-1 rated value | 153 000 A |
| • at 500 V acc. to IEC 60947-4-1 rated value | 100 000 A |

Installation/ mounting/ dimensions

| | |
|--------------------------|--|
| Mounting position | vertical |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail |
| Height | 167.2 mm |
| Width | 45 mm |
| Depth | 97.1 mm |
| Required spacing | |
| • for grounded parts | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 0 mm |
| — Backwards | 0 mm |
| — upwards | 20 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 | 0.5 ... 4 mm ² , 2x (0.75 ... 2.5 mm ²) |
| • at AWG conductors for main contacts | 2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12 |
| Connectable conductor cross-section for main contacts | |
| • finely stranded with core end processing | 0.5 ... 2.5 mm ² |

Safety related data

| | |
|--|-----------|
| B10 value <ul style="list-style-type: none">with high demand rate acc. to SN 31920 | 1 000 000 |
| Proportion of dangerous failures <ul style="list-style-type: none">with high demand rate acc. to SN 31920 | 73 % |

Certificates/ approvals

| 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=3RA2110-1FA15-1AK6>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2110-1FA15-1AK6>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AK6>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2110-1FA15-1AK6&lang=en

Characteristic: Tripping characteristics, I^{Δt}, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2110-1FA15-1AK6/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2110-1FA15-1AK6&objecttype=14&gridview=view1>







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