

Load feeder fuseless, Reversing duty 400 V AC, Size S00 0.55...0.80
 A 24 V DC screw terminal for 60 mm busbar systems (also fulfills
 type of coordination 1) Type of coordination 2, I_q = 150 kA 1 NC
 (contactor)



| | |
|---|---|
| product brand name | SIRIUS |
| Product designation | Reversing starter |
| Design of the product | for 60 mm busbars |
| Product type designation | 3RA22 |
| Manufacturer's article number | |
| <ul style="list-style-type: none"> • of the supplied contactor • of the supplied circuit-breakers • of the supplied RS assembly kit • of the supplied busbar adapter • of the supplied link module | <ul style="list-style-type: none"> 3RT2015-1BB42 3RV2011-0HA10 8US1250-5AS10 8US1251-5DS10 3RA1921-1DA00 |

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

Ambient conditions

| | |
|--|----------------|
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -20 ... +60 °C |
| <ul style="list-style-type: none"> • during storage | -50 ... +80 °C |
| <ul style="list-style-type: none"> • 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 pick-up value current of the current-dependent overload release | 0.55 ... 0.8 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 | |
| <ul style="list-style-type: none"> — at 400 V rated value | 0.6 A |
| Operating power | |
| <ul style="list-style-type: none"> • at AC-3 | |
| <ul style="list-style-type: none"> — at 400 V rated value | 180 W |

Control circuit/ Control

| | |
|---|------|
| Type of voltage of the control supply voltage | DC |
| Control supply voltage at DC | |
| <ul style="list-style-type: none"> • rated value | 24 V |
| Holding power of magnet coil at DC | 4 W |

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 three-phase AC motor | |
| <ul style="list-style-type: none"> at 480 V rated value | 0.8 A |
| Short-circuit protection | |
| Product function Short circuit protection | Yes |
| Design of the short-circuit trip | magnetic |
| Conditional short-circuit current (I_q) | |
| <ul style="list-style-type: none"> at 400 V acc. to IEC 60947-4-1 rated value | 150 000 A |
| Installation/ mounting/ dimensions | |
| <ul style="list-style-type: none"> mounting position | vertical |
| Mounting type | for snapping onto 60 mm busbar systems |
| Height | 200 mm |
| Width | 90 mm |
| Depth | 156 mm |
| Required spacing | |
| <ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> forwards Backwards upwards at the side downwards for live parts <ul style="list-style-type: none"> forwards Backwards upwards downwards at the side | 32 mm 0 mm 50 mm 10 mm 10 mm 32 mm 0 mm 50 mm 10 mm 10 mm |
| Connections/ Terminals | |
| <ul style="list-style-type: none"> Type of electrical connection for main current circuit | screw-type terminals |
| Type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> for main contacts <ul style="list-style-type: none"> stranded at AWG conductors for main contacts | 0.5 ... 4 mm ² , 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), only for contactor 2x (18 ... 14), 2x 12 |
| Connectable conductor cross-section for main contacts | |
| <ul style="list-style-type: none"> 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 |
| |  BUREAU VERITAS |
| |  LRS |
| |  PRS |

| | | |
|---|---|---|
| Marine / Shipping | other | Railway |
|  RINA |  RMRS |  DNV-GL 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=3RA2210-0HD15-2BB4>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2210-0HD15-2BB4>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0HD15-2BB4>

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

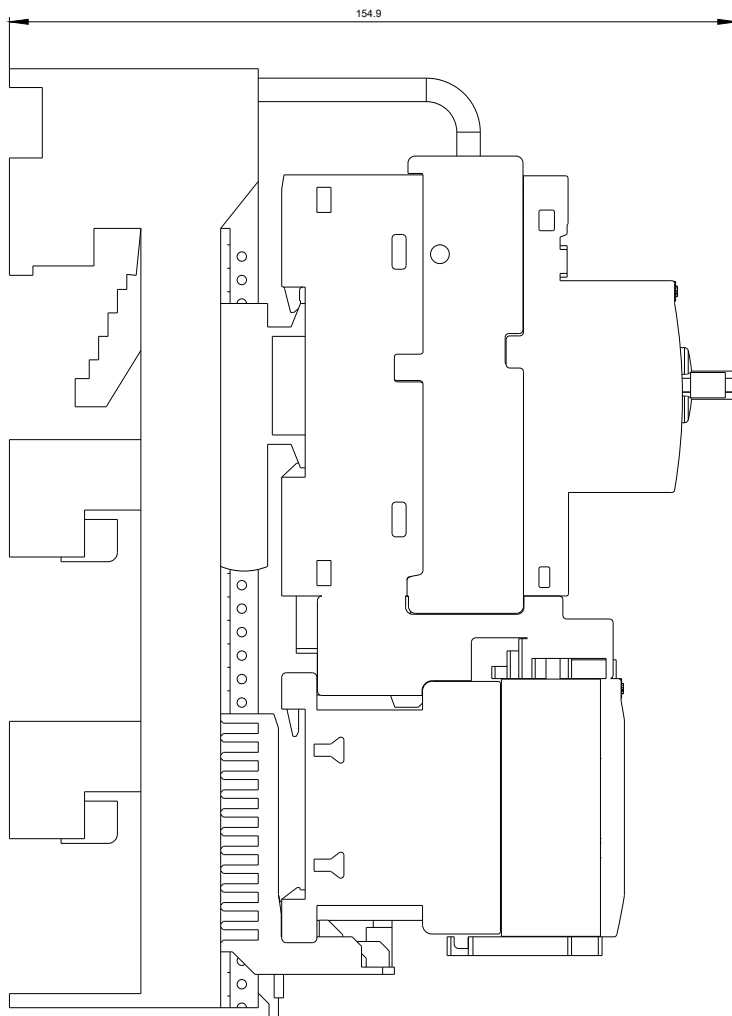
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2210-0HD15-2BB4&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

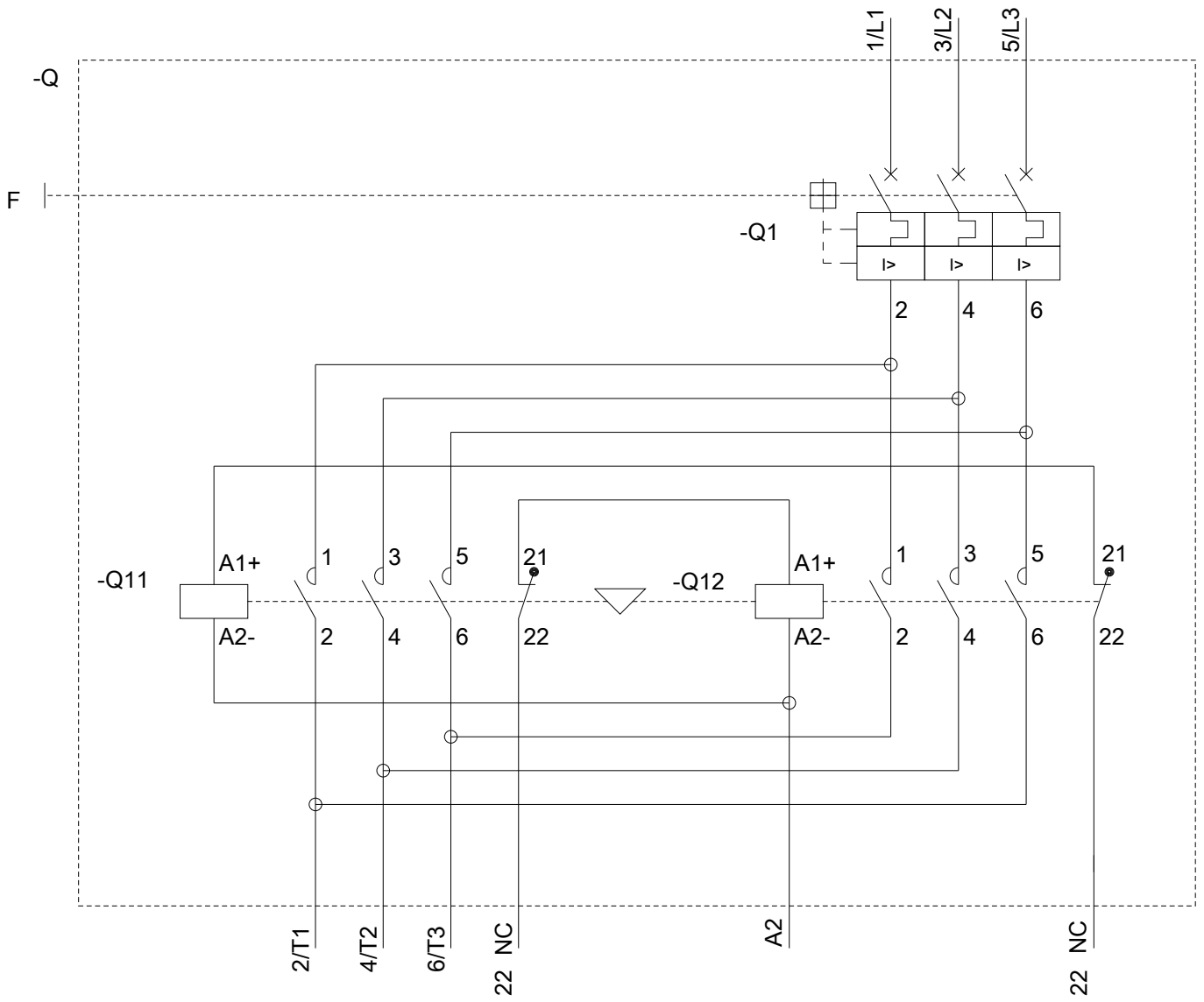
<https://support.industry.siemens.com/cs/ww/en/ps/3RA2210-0HD15-2BB4/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2210-0HD15-2BB4&objecttype=14&gridview=view1>







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