3RA2220-1DD23-0AK6

Data sheet



Fuseless motor starter Reversing operation 600VAC Size S0 2.2-3.2A 110/120VAC 50/60HZ screw connection For snapping onto 60 mm busbar systems Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (per contactor)

| product brand name | SIRIUS |
|---|------------------------------|
| product designation | non-fused motor starter 3RA2 |
| design of the product | reversing starter |
| manufacturer's article number | |
| of the supplied contactor | 3RT2023-1AK60 |
| of the supplied circuit-breakers | 3RV2011-1DA10 |
| of the supplied RS assembly kit | 3RA2923-1DB1 |
| of the supplied busbar adapter | <u>8US1251-5NT10</u> |
| of the supplied link module | 3RA2921-1AA00 |
| General technical data | |
| size of the circuit-breaker | S00 |
| size of load feeder | S0 |
| product extension auxiliary switch | Yes |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 6 kV |
| shock resistance according to IEC 60068-2-27 | 6g / 11 ms |
| mechanical service life (operating cycles) of contactor typical | 10 000 000 |
| type of assignment | 2 |
| Substance Prohibitance (Date) | 03/01/2017 |
| Ambient conditions | |
| ambient temperature | |
| during operation | -20 +60 °C |
| during storage | -50 +80 °C |
| during transport | -55 +80 °C |
| 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 | 2.2 3.2 A |
| operating voltage | |
| rated value | 690 V |
| at AC-3 rated value maximum | 690 V |
| operating frequency rated value | 50 60 Hz |
| operational current at AC-3 at 400 V rated value | 2.7 A |
| operating power at AC-3 | |
| • at 400 V rated value | 1 100 W |
| • at 500 V rated value | 1 500 W |
| Control circuit/ Control | |
| control supply voltage at AC | |

| at 50 Hz rated value | 110 V |
|---|--|
| at 50 Hz rated value | 88 121 V |
| at 60 Hz rated value | 120 V |
| at 60 Hz rated value | 96 132 V |
| apparent holding power of magnet coil at AC | 7.2 VA |
| inductive power factor with the holding power of the coil | 0.28 |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 2 |
| number of NO contacts for auxiliary contacts | 2 |
| Protective and monitoring functions | |
| | CL ACC 40 |
| trip class | CLASS 10 |
| design of the overload release | thermal (bimetallic) |
| response value current of instantaneous short-circuit trip unit | 41.6 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 2.8 A |
| at 600 V rated value | 3.16 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.1 hp |
| — at 230 V rated value | 0.25 hp |
| • for 3-phase AC motor | · |
| — at 200/208 V rated value | 0.5 hp |
| — at 220/230 V rated value | 0.75 hp |
| — at 460/480 V rated value | 1.5 hp |
| — at 460/460 V rated value | 2 hp |
| | 2 lip |
| 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 | 153 000 A |
| | |
| Installation/ mounting/ dimensions | |
| Installation/ mounting/ dimensions mounting position | vertical |
| | vertical for snapping onto 60 mm busbar systems |
| mounting position | |
| mounting position fastening method | for snapping onto 60 mm busbar systems 260 mm |
| mounting position fastening method height width | for snapping onto 60 mm busbar systems |
| mounting position fastening method height width depth | for snapping onto 60 mm busbar systems 260 mm 90 mm |
| mounting position fastening method height width depth required spacing | for snapping onto 60 mm busbar systems 260 mm 90 mm |
| mounting position fastening method height width depth required spacing • for grounded parts | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards • for lowards — backwards — backwards | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm |
| mounting position fastening method height width depth required spacing | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm |
| mounting position fastening method height width depth required spacing | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — backwards — backwards — at the side — downwards — forwards — forwards — backwards — backwards — backwards — upwards — downwards — at the side | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — at the side — downwards — at the side — downwards — backwards — backwards — upwards — at the side Connections/ Terminals | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 10 mm 9 mm 10 mm 9 mm 10 mm 9 mm 9 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a the side — downwards • for live parts — forwards — backwards — upwards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 9 mm 10 mm 0 mm 30 mm 9 mm 10 mm |
| mounting position fastening method height width depth required spacing | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm |
| mounting position fastening method height width depth required spacing • for grounded parts — forwards — backwards — upwards — at the side — downwards • for live parts — forwards — backwards — upwards — a towards — backwards — upwards — backwards — upwards — towards — at the side Connections/ Terminals type of electrical connection for main current circuit type of connectable conductor cross-sections for main contacts stranded connectable conductor cross-section for main contacts finely stranded with core end processing Safety related data B10 value with high demand rate according to SN 31920 | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm |
| mounting position fastening method height width depth required spacing | for snapping onto 60 mm busbar systems 260 mm 90 mm 155 mm 10 mm 0 mm 30 mm 9 mm 10 mm 10 mm 0 mm 30 mm 10 mm |

Certificates/ approvals

General Product Approval

For use in hazardous locations

Declaration of Conformity

other

Confirmation









Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RA2220-1DD23-0AK6

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2220-1DD23-0AK6

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1DD23-0AK6

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

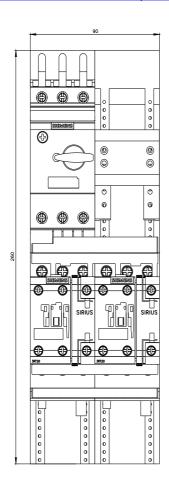
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2220-1DD23-0AK6&lang=en

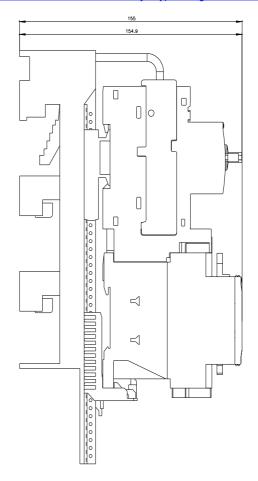
Characteristic: Tripping characteristics, I2t, Let-through current

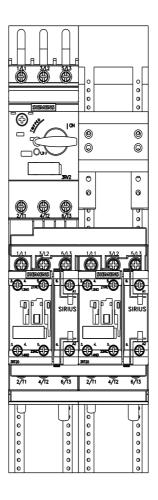
https://support.industry.siemens.com/cs/ww/en/ps/3RA2220-1DD23-0AK6/char

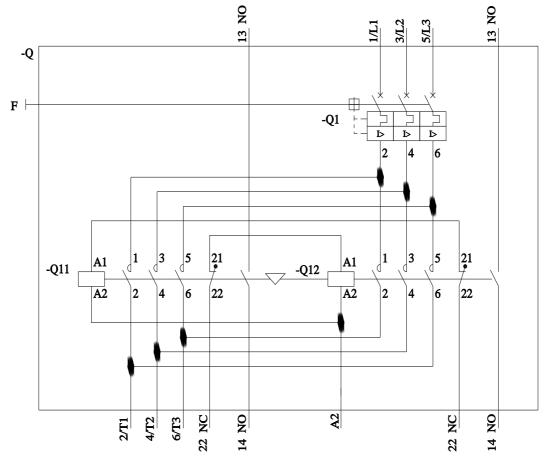
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2220-1DD23-0AK6&objecttype=14&gridview=view1









last modified: 12/15/2020 🖸