Data sheet 3RA2125-1HA24-0AK6



Fuseless motor starter Direct start 600VAC Size S0 5.5-8Amp 110/120VAC 50/60HZ screw connection For screw mounting Or 35 mm rail-mounting Type of coordination 2 IQ = 150 KA Also full fills type Of coordination 1 1NO+1NC (MSP) 1NO+1NC (contactor)

| size of the circuit-breaker size of load feeder so product extension auxiliary switch yes insulation voltage with degree of pollution 3 at AC rated value 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 type of assignment 2 Ambient conditions ambient temperature during operation during storage during storage during transport **Special Circuit** number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage a rated value at AC-3 rated value maximum operating power at AC-3 at 400 V rated value at 500 V rated value | product brand name | SIRIUS |
|---|---|------------------------------|
| manufacturer's article number of the supplied contactor of the supplied clinit-breakers of the supplied link module 38A2921-1AA00 Store of the supplied link module 38A2921-1AA00 Store of the circuit-breaker size of the circuit-size of the | product designation | non-fused motor starter 3RA2 |
| of the supplied contactor of the supplied circuit-breakers of the supplied link module 3RAY2011-1HA15 3RAY2011-1HA15 3RAY2011-1HA15 3RAY2011-1HA15 3IZE of the circuit-breaker Size of load feeder So product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 2 vulning operation - during operation - during storage - during transport - 55 +80 °C - during transport - 55 +80 °C - during transport - 55 +80 °C - during transport - 75 +80 °C - 38 +80 °C - 39 +80 °C - 40 +80 °C - 40 +80 °C - 40 +80 °C - 55 +80 °C - 55 +80 °C - 55 | design of the product | direct starter |
| of the supplied circuit-breakers of the supplied link module 3RA921-1AA00 3RA921-1AA00 3RA921-1AA00 3RA921-1AA00 3RA921-1AA00 3 SUB OF CIRCUIT-Breaker Size of the c | manufacturer's article number | |
| • of the supplied link module 38RA2921-1AA00 30noral tochnical data size of the circuit-breaker size of the circuit-breaker size of the circuit-breaker size of toad feeder S0 product extension auxiliary switch yes insulation voltage with degree of pollution 3 at AC rated value degree of pollution 3 surge voltage resistance rated value 6 kV shock resistance according to IEC 60068-227 mechanical service life (operating cycles) of contactor typical 10 000 000 type of assignment - during operation - during storage - during storage - during transport - sp. +80 °C - sp80 °C - s | of the supplied contactor | 3RT2024-1AK60 |
| Size of the circuit-breaker \$00 size of load feeder \$00 product extension auxiliary switch Yes insulation voltage with degree of pollution \$10 at AC rated value \$100 over \$100 | of the supplied circuit-breakers | 3RV2011-1HA15 |
| size of the circuit-breaker \$00 size of load feeder \$0 product extension auxiliary switch Yes insulation voltage with degree of pollution 3 at AC rated value 680 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 Ambient conditions 3 ambient temperature -20 +60 °C during operation -20 +60 °C during transport -55 +80 °C value 4 wink circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release 55 8 A operating voltage • 15 8 A • rated value 690 V • at AC3 rated value maximum 690 V operating frequency rated value 55 80 F • at 400 V rated value 3 000 W • at 400 V rated value 3 000 W | of the supplied link module | 3RA2921-1AA00 |
| size of load feeder product extension auxiliary switch Presides insulation voltage with degree of pollution 3 at AC rated value gere of pollution 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 10 ype of assignment vpe of assignment during operation during storage during storage during storage during storage during transport selectromechanical service life operating current circuit selectromechanical design of the switching contact dependent overload release operating voltage rated value at AC-3 rated value maximum enable tack at AC-3 rated value enable at AC-3 ra | General technical data | |
| product extension auxiliary switch product extension auxiliary switch insulation voltage with degree of pollution 3 at AC rated value degree of pollution surge voltage resistance rated value shock resistance according to IEC 60068-2-27 6g / 11 ms mechanical service life (operating cycles) of contactor typical type of assignment 2 Ambient conditions ambient temperature during operation during storage during transport during transport design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage at AC-3 rated value at AC-3 at 400 V rated value perating power at AC-3 at 400 V rated value at 50 M rated value at 50 M rated value at 50 Hz rated value | size of the circuit-breaker | S00 |
| 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 Ambient conditions ambient temperature during storage -50 +60 °C during storage -50 +80 °C during transport -55 +80 °C Main circuit 3 design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage -750 +80 °C e rated value -800 V e at AC-3 rated value maximum 690 V operating frequency rated value -800 V operating frequency rated value -6.5 A operating power at AC-3 -800 V rated value -800 V rated valu | size of load feeder | S0 |
| 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 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 operating voltage • rated value 690 V operating frequency rated value 990 V operating frequency rated value 6.5 A operating power at AC-3 at 400 V rated value 6.5 A operating power at AC-3 • at 400 V rated value 3 000 W • at 500 V rated value 4 000 W control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V • at 50 Hz rated value 88 121 V | product extension auxiliary switch | Yes |
| 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 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 operating voltage • rated value - at AC-3 rated value maximum 690 V operating frequency rated value operating frequency rated value operating power at AC-3 • at 400 V rated value - 3 000 W • at 500 V rated value - 4 000 W control supply voltage at AC • at 50 Hz rated value | insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| 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 Ambient conditions ambient temperature | degree of pollution | 3 |
| mechanical service life (operating cycles) of contactor typical type of assignment 2 Ambient conditions ambient temperature • during operation • during storage • during transport Advining transport **Total Circuit** number of poles for main current circuit adjustable current response value current of the current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating power at AC-3 • at 400 V rated value • at 500 Hz rated value • at 50 Hz rated value | surge voltage resistance rated value | 6 kV |
| type of assignment 2 Ambient conditions ambient temperature • during operation • during storage • during transport Adving transport a | shock resistance according to IEC 60068-2-27 | 6g / 11 ms |
| Ambient conditions amblent temperature • during operation • during storage • during transport Ambient circuit control surply voltage • at 50 Hz rated value | mechanical service life (operating cycles) of contactor typical | 10 000 000 |
| ambient temperature • during operation • during storage • during transport -50 +80 °C -55 +80 °C **Main circuit** **mumber of poles for main current circuit design of the switching contact adjustable current response value current of the current-dependent overload release **operating voltage • rated value • at AC-3 rated value maximum **operating frequency rated value **operating frequency rated value **operating power at AC-3 at 400 V rated value **operating power at AC-3 • at 400 V rated value • at 500 V rated value **at 500 Hz rated value **on the following of the follo | type of assignment | 2 |
| during operation during storage during transport -50 +80 °C during transport -55 +80 °C Main circuit number of poles for main current circuit design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operating frequency rated value operating frequency rated value operating power at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 500 V rated value at 50 Hz rated value | Ambient conditions | |
| during storage during transport -55 +80 °C Main circuit number of poles for main current circuit design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum operating frequency rated value operating power at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 500 Hz rated value Control supply voltage at AC at 50 Hz rated value at 50 Hz rated value at 50 Hz rated value 110 V at 50 Hz rated value 88 121 V | ambient temperature | |
| during transport -55 +80 °C Main circuit number of poles for main current circuit design of the switching contact electromechanical adjustable current response value current of the current-dependent overload release operating voltage rated value at AC-3 rated value maximum 690 V operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 at 400 V rated value at 50 W rated value at 500 V rated value operating power at AC-3 at 400 V rated value at 500 V rated value at 500 W Control circuit/ Control control supply voltage at AC at 50 Hz rated value at 50 Hz rated value 88 121 V 88 121 V | during operation | -20 +60 °C |
| number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operating lourent at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value | during storage | -50 +80 °C |
| number of poles for main current circuit design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operating quency rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value 100 W Control circuit/ Control control supply voltage at AC • at 50 Hz rated value | during transport | -55 +80 °C |
| design of the switching contact adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value operating power at AC-3 at 400 V rated value • at 400 V rated value • at 500 V rated value • at 50 Hz rated value | Main circuit | |
| adjustable current response value current of the current- dependent overload release operating voltage • rated value • at AC-3 rated value maximum operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value operating includes at AC-3 • at 500 V rated value • at 50 Hz rated value | number of poles for main current circuit | 3 |
| dependent overload release operating voltage • rated value • at AC-3 rated value maximum 690 V operating frequency rated value 50 60 Hz operating power at AC-3 at 400 V rated value 6.5 A operating power at AC-3 • at 400 V rated value 3 000 W • at 500 V rated value 4 000 W Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V • at 50 Hz rated value 88 121 V | design of the switching contact | electromechanical |
| rated value at AC-3 rated value maximum 690 V operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 50 Hz rated value | | 5.5 8 A |
| at AC-3 rated value maximum 690 V operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value • at 50 Hz rated value | operating voltage | |
| operating frequency rated value operational current at AC-3 at 400 V rated value operating power at AC-3 operating pow | • rated value | 690 V |
| operational current at AC-3 at 400 V rated value operating power at AC-3 • at 400 V rated value • at 500 V rated value control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V 88 121 V | at AC-3 rated value maximum | 690 V |
| operating power at AC-3 • at 400 V rated value 3 000 W • at 500 V rated value 4 000 W Control circuit/ Control control supply voltage at AC • at 50 Hz rated value 110 V • at 50 Hz rated value 88 121 V | operating frequency rated value | 50 60 Hz |
| at 400 V rated value at 500 V rated value 4 000 W Control circuit/ Control control supply voltage at AC at 50 Hz rated value | operational current at AC-3 at 400 V rated value | 6.5 A |
| at 500 V rated value | operating power at AC-3 | |
| Control circuit/ Control control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value 88 121 V | • at 400 V rated value | 3 000 W |
| control supply voltage at AC • at 50 Hz rated value • at 50 Hz rated value 88 121 V | at 500 V rated value | 4 000 W |
| at 50 Hz rated value at 50 Hz rated value 88 121 V | Control circuit/ Control | |
| • at 50 Hz rated value 88 121 V | control supply voltage at AC | |
| | at 50 Hz rated value | 110 V |
| • at 60 Hz rated value 120 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 | |
| trip class | CLASS 10 |
| design of the overload release | thermal (bimetallic) |
| response value current of instantaneous short-circuit trip unit | 104 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | 700 4 |
| at 480 V rated value | 7.92 A |
| at 600 V rated value yielded mechanical performance [hp] | 6.33 A |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.33 hp |
| — at 230 V rated value | 1 hp |
| for 3-phase AC motor | |
| — at 200/208 V rated value | 2 hp |
| — at 220/230 V rated value | 2 hp |
| — at 460/480 V rated value | 5 hp |
| — at 575/600 V rated value | 5 hp |
| 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 | |
| mounting position | vertical |
| fastening method | Snap-mounted to DIN rail or screw-mounted with additional push-in lug |
| height | 193.1 mm |
| width | 45 mm 97.1 mm |
| depth required spacing | 97.1 mm |
| • for grounded parts | |
| — forwards | 10 mm |
| — backwards | 0 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 10 mm |
| — backwards | 0 mm |
| — upwards | 30 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 | 1 10 mm², 2x (2.5 6 mm²) |
| connectable conductor cross-section for main contacts finely stranded with core end processing | 1 6 mm² |
| Safety related data | |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| proportion of dangerous failures with high demand rate according to SN 31920 | 73 % |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| Certificates/ approvals | |
| General Product Approval | For use in hazard- Declaration of Conformity |

Confirmation











Test Certificates

Marine / Shipping

Special Test Certificate

Type Test Certificates/Test Report









Marine / Shipping



Confirmation

other

Vibration and Shock

Railway

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=3RA2125-1HA24-0AK6

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RA2125-1HA24-0AK6}}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1HA24-0AK6

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

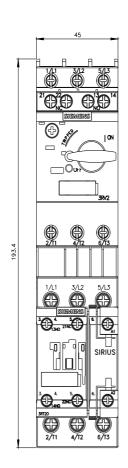
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2125-1HA24-0AK6&lang=en

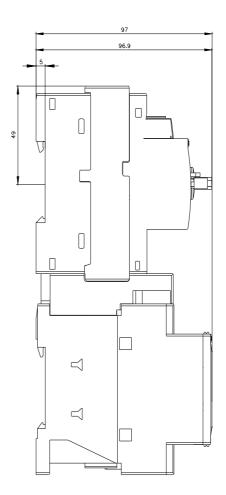
Characteristic: Tripping characteristics, I2t, Let-through current

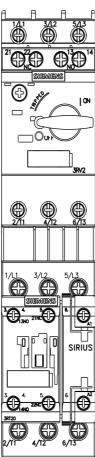
https://support.industry.siemens.com/cs/ww/en/ps/3RA2125-1HA24-0AK6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2125-1HA24-0AK6&objecttype=14&gridview=view1







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