SIEMENS

Data sheet

3RA2337-8XE30-1NB3



reversing contactor assembly, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 20-33 V AC/DC, 50/60 Hz, screw terminal, electrical and mechanical interlock, auxiliary contacts: 2 x 1 NO, with voltage tap for 3RA27

| product designation Reversing contactor assembly product type designation 3RA23 manufacturer's article number ● 1 of the supplied contactor 3R12037-1NB30-0CC0 • 2 of the supplied contactor 3R12037-1NB30 • of the supplied contactor 3R12037-1NB30 • of the supplied RS assembly kit 3RA2833-2AA1 | product brand name | SIRIUS |
|---|--|------------------------------|
| manufacturer's article number 3R12037-1NB30-QCQ0 • 1 of the supplied contactor 3R12037-1NB30-QCQ0 • of the supplied RS assembly kit 3RA2933-2AA1 Concrat technical data size of contactor S2 product extension auxiliary switch Yes shock resistance at rectangular impulse 4 AC • at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse 12g / 5 ms, 7g / 10 ms • at DC 12g / 5 ms, 7g / 10 ms mechanical service life (operating cycles) 10000 000 • of the contactor with added auxiliary switch block typical 10000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10000 000 sVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Reside (lead oxide) - 1317-36-8 Weight 2.85 kg Ambient conditions - 25 +60 °C installation altitude at height above sea level maximum 2000 m aminer temperature 4 uring operation 2.5 +80 °C during storage 5.5 +80 °C | product designation | Reversing contactor assembly |
| 1 of the supplied contactor 2 of the supplied contactor 5 of the supplied RS assembly kit 5 aga293-2AA1 Concral tochnical data size of contactor 7 product extension auxiliary switch 5 at AC 6 at DC 7,7g / 5 ms, 4.5g / 10 ms 5 at AC 6 at DC 7,7g / 5 ms, 4.5g / 10 ms 6 at AC 7,7g / 5 ms, 4.5g / 10 ms 8 at AC 8 at DC 8 at AC 8 at DC 9 at AC 8 at DC 9 at AC 8 at DC 12g / 5 ms, 7g / 10 ms 1000 000 1000 0 | product type designation | 3RA23 |
| • 2 of the supplied contactor • of the supplied RS assembly kit Size of contactor size of contactor size of contactor shock resistance at rectangular impulse • at AC • at DC **at D | manufacturer's article number | |
| of the supplied RS assembly kit Scoraria technical data size of contactor product extension auxiliary switch at DC at AC-3 at DC | • 1 of the supplied contactor | 3RT2037-1NB30-0CC0 |
| Size of contactor size of contactor product extension auxiliary switch shock resistance at rectangular impulse at AC at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse at AC at AC at AC at AC 12g / 5 ms, 7g / 10 ms shock resistance with sine pulse at AC at DC 12g / 5 ms, 7g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81348-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum abilitude at height above sea level maximum 4. during operation 4. during storage Main circuit number of NO contacts for main current circuit number of POC contacts for main contacts 0 operating voltage 4. at AC-3 rated value maximum 690 V 4. at AC-3 4. at AC-3 - at 400 V rated value 65 A | 2 of the supplied contactor | <u>3RT2037-1NB30</u> |
| Size of contactor S2 | of the supplied RS assembly kit | 3RA2933-2AA1 |
| product extension auxiliary switch shock resistance at rectangular impulse at AC at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse at AC at DC 12g / 5 ms, 7g / 10 ms at DC at DC 12g / 5 ms, 7g / 10 ms at DC at DC at DC at DC 12g / 5 ms, 7g / 10 ms at DC at DC at DC at DC 12g / 5 ms, 7g / 10 ms actionated service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight Ambient conditions installation altitude at height above sea level maximum ambient temperature of uring storage of uring storage Auxiliary number of NC contacts for main contacts number of NC contacts for main contacts operating voltage of AC-3 rated value maximum operational current of AC-3 rated value maximum operational current of AC-3 at AC-3 at AC-3 at 4C-3 at 4C-3 at 4C-3 at 4C-3 at 4C-3 at 4UO V rated value of SA | General technical data | |
| shock resistance at rectangular impulse | size of contactor | S2 |
| ■ at AC ■ at DC 7.7g / 5 ms, 4.5g / 10 ms shock resistance with sine pulse ■ at AC ■ at DC 12g / 5 ms, 7g / 10 ms mechanical service life (operating cycles) ● of contactor typical ● of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead -7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature ● during operation ● during storage -55 +80 °C Main circuit number of Poles for main current circuit 3 number of NC contacts for main contacts 0 operating voltage • at AC-3 rated value maximum 690 V • at AC-3 rated value • at AC-3 — at 400 V rated value 65 A | product extension auxiliary switch | Yes |
| • at DC shock resistance with sine pulse • at AC • at DC mechanical service life (operating cycles) • of contactor typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) VHC substance name Lead - 7438-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage Aid ricruit number of NO contacts for main contacts number of NO contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value • at AC-3 - at 400 V rated value • 65 A | shock resistance at rectangular impulse | |
| shock resistance with sine pulse at AC at DC 12g / 5 ms, 7g / 10 ms 12g / | • at AC | 7.7g / 5 ms, 4.5g / 10 ms |
| ■ at AC ■ at DC ■ at DC ■ at DC ■ contactor life (operating cycles) ■ of contactor typical ■ of othe contactor with added auxiliary switch block typical ■ of the contactor with added auxiliary switch block typical ■ of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight ② 2.865 kg Ambient conditions installation attitude at height above sea level maximum ② 000 m ambient temperature ● during operation ● during operation ● during storage → 25 +80 °C Main circuit number of poles for main current circuit □ auximum of NC contacts for main contacts □ number of NC contacts for main contacts ○ operating voltage ● at AC-3 rated value maximum ● 690 V operational current ● at AC-3 — at 400 V rated value ● at AC-3 — at 400 V rated value | • at DC | 7.7g / 5 ms, 4.5g / 10 ms |
| * at DC mechanical service life (operating cycles) * of contactor typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the contactor with added auxiliary switch block typical * of the | shock resistance with sine pulse | |
| mechanical service life (operating cycles) of contactor typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation during storage -25 +60 °C -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts 0 number of NC contacts for main contacts 0 operating voltage of at AC-3 rated value maximum of AC-3 —at 400 V rated value 65 A | • at AC | 12g / 5 ms, 7g / 10 ms |
| of contactor typical of the contactor with added auxiliary switch block typical 10 000 000 reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oluring operation during storage -55 +60 °C during storage -55 +80 °C Main circuit number of poles for main current circuit number of NC contacts for main contacts operating voltage ot AC-3 rated value maximum 690 V operational current ot AC-3 -at 400 V rated value 65 A | • at DC | 12g / 5 ms, 7g / 10 ms |
| of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature oduring operation -25 +60 °C -55 +80 °C Main circuit number of poles for main current circuit 1 anumber of NC contacts for main contacts 0 number of NC contacts for main contacts 0 poerating voltage at AC-3 rated value maximum 690 V at AC-3 rated value maximum at AC-3 -at 400 V rated value 65 A | mechanical service life (operating cycles) | |
| reference code according to IEC 81346-2 Q Substance Prohibitance (Date) 10/01/2014 SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum 2 000 m ambient temperature • during operation -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 0 number of NC contacts for main contacts 0 operating voltage • at AC-3 rated value maximum 690 V operational current • at AC-3 — at 400 V rated value 65 A | of contactor typical | 10 000 000 |
| Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage • during storage -25 +60 °C • during storage Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3 — at 400 V rated value 65 A | of the contactor with added auxiliary switch block typical | 10 000 000 |
| SVHC substance name Lead - 7439-92-1 Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 0 number of NC contacts for main contacts 0 operating voltage • at AC-3 rated value maximum • at AC-3 —at 400 V rated value 65 A | reference code according to IEC 81346-2 | Q |
| Lead monoxide (lead oxide) - 1317-36-8 Weight 2.865 kg | Substance Prohibitance (Date) | 10/01/2014 |
| Ambient conditions installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit 13 number of NO contacts for main contacts 0 number of NC contacts for main contacts 0 operating voltage • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum 690 V operational current • at AC-3 — at 400 V rated value 65 A | SVHC substance name | |
| installation altitude at height above sea level maximum ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts o operating voltage • at AC-3 rated value maximum • at AC-3e rated value maximum • at AC-3 — at 400 V rated value 65 A | Weight | 2.865 kg |
| ambient temperature • during operation • during storage -25 +60 °C • during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts 0 operating voltage • at AC-3 rated value maximum • at AC-3e rated value maximum • at AC-3 — at 400 V rated value 65 A | Ambient conditions | |
| during operation during storage -25 +60 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum at AC-3 at AC-3 at AC-3 at 400 V rated value 65 A | installation altitude at height above sea level maximum | 2 000 m |
| during storage -55 +80 °C Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage at AC-3 rated value maximum at AC-3e rated value maximum at AC-3 | ambient temperature | |
| Main circuit number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3e rated value maximum • at AC-3 — at 400 V rated value 65 A | during operation | -25 +60 °C |
| number of poles for main current circuit number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3e rated value maximum operational current • at AC-3 — at 400 V rated value 65 A | during storage | -55 +80 °C |
| number of NO contacts for main contacts number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3e rated value maximum operational current • at AC-3 — at 400 V rated value 65 A | Main circuit | |
| number of NC contacts for main contacts operating voltage • at AC-3 rated value maximum • at AC-3e rated value maximum operational current • at AC-3 — at 400 V rated value 65 A | number of poles for main current circuit | 3 |
| operating voltage • at AC-3 rated value maximum • at AC-3e rated value maximum 690 V operational current • at AC-3 — at 400 V rated value 65 A | number of NO contacts for main contacts | 0 |
| at AC-3 rated value maximum at AC-3e rated value maximum 690 V operational current at AC-3 — at 400 V rated value 65 A | number of NC contacts for main contacts | 0 |
| at AC-3e rated value maximum operational current at AC-3 — at 400 V rated value 690 V 65 A | operating voltage | |
| operational current ■ at AC-3 — at 400 V rated value 65 A | at AC-3 rated value maximum | 690 V |
| • at AC-3 — at 400 V rated value 65 A | at AC-3e rated value maximum | 690 V |
| — at 400 V rated value 65 A | operational current | |
| | • at AC-3 | |
| — at 500 V rated value 65 A | — at 400 V rated value | 65 A |
| | — at 500 V rated value | 65 A |

| — at 690 V rated value | 47 A |
|--|--|
| • at AC-3e | |
| — at 400 V rated value | 65 A |
| — at 500 V rated value | 65 A |
| — at 690 V rated value | 47 A |
| operating power | |
| • at AC-3 | |
| — at 400 V rated value | 30 kW |
| — at 500 V rated value | 37 kW |
| — at 690 V rated value | 37 kW |
| • at AC-3e | |
| — at 400 V rated value | 30 kW |
| — at 690 V rated value | 37 kW |
| at AC-4 at 400 V rated value | 30 kW |
| operating frequency | |
| • at AC-3 maximum | 700 1/h |
| at AC-3e maximum | 700 1/h |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | AC/DC |
| control supply voltage 1 at AC | |
| ● at 50 Hz | 20 33 V |
| ● at 60 Hz | 20 33 V |
| control supply voltage 1 at DC | 20 33 V |
| operating range factor control supply voltage rated value of | |
| magnet coil at AC | 00 44 |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.8 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power of magnet coil at AC | 40.14 |
| • at 50 Hz | 40 VA |
| • at 60 Hz | 40 VA |
| inductive power factor with closing power of the coil | 0.64 |
| • at 50 Hz • at 60 Hz | 0.64 0.5 |
| | 0.5 |
| apparent holding power of magnet coil at AC • at 50 Hz | 2 VA |
| • at 60 Hz | 2 VA |
| inductive power factor with the holding power of the coil | Z VA |
| at 50 Hz | 0.36 |
| • at 60 Hz | 0.39 |
| closing power of magnet coil at DC | 23 W |
| holding power of magnet coil at DC | 1 W |
| Auxiliary circuit | 1 VV |
| number of NC contacts for auxiliary contacts | |
| per direction of rotation | 0 |
| number of NO contacts for auxiliary contacts | |
| per direction of rotation | 1 |
| instantaneous contact | 2 |
| ontact reliability of auxiliary contacts | < 1 error per 100 million operating cycles |
| UL/CSA ratings | Terror per 100 million operating cycles |
| | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value | 65 A |
| at 480 V rated value at 600 V rated value | 62 A |
| | V2 A |
| yielded mechanical performance [hp] for 3-phase AC motor | 20 hp |
| • at 220/230 V rated value | 20 hp |
| • at 460/480 V rated value | 50 hp |
| at 575/600 V rated value | 50 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |

- with type of assignment 2 required gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 125 A • for short-circuit protection of the auxiliary switch required fuse gG: 10 A Installation/ mounting/ dimensions mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail fastening method height 141 mm width 120 mm 130 mm depth required spacing • with side-by-side mounting — forwards 10 mm - backwards 0 mm - upwards 10 mm - downwards 10 mm - at the side 10 mm • for grounded parts — forwards 10 mm - backwards 0 mm - upwards 10 mm - at the side 10 mm - downwards 10 mm • for live parts - forwards 10 mm - backwards 0 mm - upwards 10 mm downwards 10 mm - at the side 10 mm **Connections/ Terminals** type of electrical connection • for main current circuit screw-type terminals • for auxiliary and control circuit screw-type terminals • at contactor for auxiliary contacts Screw-type terminals · of magnet coil Screw-type terminals type of connectable conductor cross-sections for main contacts solid 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) solid or stranded 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) • finely stranded with core end processing 2x (1 ... 25 mm²), 1x (1 ... 35 mm²) type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) - finely stranded with core end processing 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) • for AWG cables for auxiliary contacts 2x (20 ... 16), 2x (18 ... 14) Safety related data product function suitable for safety function Yes **Electrical Safety** protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front Communication/ Protoco product function bus communication Yes protocol is supported AS-Interface protocol Nο product function control circuit interface with IO link Approvals Certificates

gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 250 A



General Product Approval

Confirmation

- with type of coordination 1 required









Test Certificates

Marine / Shipping

Type Test Certificates/Test Report











Marine / Shipping

other

Dangerous goods

Environment



Confirmation

Transport Information

Environmental Confirmations

Further information

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=3RA2337-8XE30-1NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2337-8XE30-1NB3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XE30-1NB3

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

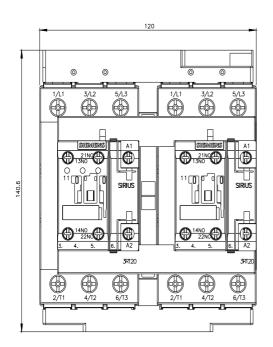
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2337-8XE30-1NB3&lang=en

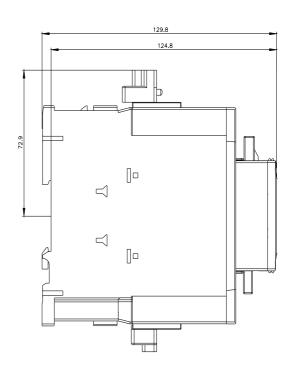
Characteristic: Tripping characteristics, I2t, Let-through current

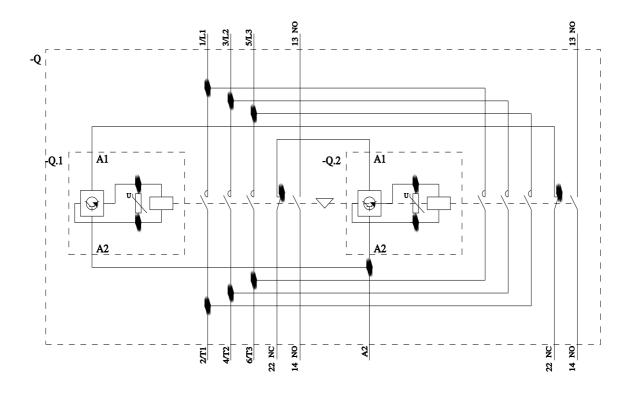
https://support.industry.siemens.com/cs/ww/en/ps/3RA2337-8XE30-1NB3/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2337-8XE30-1NB3&objecttype=14&gridview=view1







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