SIEMENS

Data sheet

product brand name

3RA2435-8XF32-1NB3

Contactor assembly for star-delta (wye-delta) start AC-3, 37 kW/400 V,24-33 V AC/DC 3-pole, size S2 screw terminals electrical and mechanical interlock 3 NO + 3 NC integrated



| product brand name | _ SIRIUS | | |
|--|---|--|--|
| product designation | Contactor assembly for star-delta (wye-delta) start | | |
| product type designation | 3RA24 | | |
| manufacturer's article number | | | |
| 1 of the supplied contactor | 3RT2035-1NB30 | | |
| 2 of the supplied contactor | 3RT2035-1NB30 | | |
| 3 of the supplied contactor | 3RT2027-1NB30 | | |
| of the supplied RS assembly kit | 3RA2933-2C | | |
| of the supplied function module for wye-delta circuits | 3RA2816-0EW20 | | |
| General technical data | | | |
| size of contactor | S2 | | |
| product extension auxiliary switch | No | | |
| shock resistance at rectangular impulse | | | |
| • at AC | 7.7g / 5 ms, 4.5g / 10 ms | | |
| • at DC | 7.7g / 5 ms, 4.5g / 10 ms | | |
| shock resistance with sine pulse | | | |
| • at AC | 12g / 5 ms, 7g / 10 ms | | |
| • at DC | 12g / 5 ms, 7g / 10 ms | | |
| mechanical service life (switching cycles) | | | |
| of contactor typical | 10 000 000 | | |
| 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 | | |
| 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 | 3 | | |
| 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 | 80 A | | |
| operating power | | | |
| • at AC-3 | | | |
| — at 400 V rated value | 37 kW | | |
| | | | |

SIRIUS

| operating frequency at AC-3 maximum | 1 000 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 | |
| • at 50 Hz | 0.8 1.1 |
| • at 60 Hz | 0.85 1.1 |
| design of the surge suppressor | with varistor |
| apparent pick-up power of magnet coil at AC | 00.1/4 |
| • at 50 Hz | 82 VA |
| • at 60 Hz | 82 VA |
| inductive power factor with closing power of the coil | 0.64 |
| ● at 50 Hz ● at 60 Hz | 0.64 |
| ****** | 0.5 |
| apparent holding power of magnet coil at AC ● at 50 Hz | 6 VA |
| • at 60 Hz | 6 VA |
| inductive power factor with the holding power of the coil | |
| • at 50 Hz | 0.36 |
| • at 60 Hz | 0.39 |
| closing power of magnet coil at DC | 28 W |
| holding power of magnet coil at DC | 4 W |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | |
| instantaneous contact | 3 |
| number of NO contacts for auxiliary contacts | |
| instantaneous contact | 3 |
| contact reliability of auxiliary contacts | < 1 error per 100 million operating cycles |
| UL/CSA ratings | |
| 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 coordination 1 required | gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 160 A |
| — with type of assignment 2 required | gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 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 |
| fastening method | screw fixing |
| height | 142 mm |
| width | 177.5 mm |
| depth | 223 mm |
| required spacing | |
| with side-by-side mounting | 40 |
| — forwards | 10 mm |
| — backwards | 0 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| for grounded parts forwards | 10 mm |
| — forwards | 10 mm |
| backwards | 0 mm |

| Confirmation F F F | C E | | Type Test Certificates/Test Report | | |
|--|--------------|---------------------------------|------------------------------------|-------------------|--|
| General Product Approval | Declaration | of Conformity | Test Certificates | Marine / Shipping | |
| Certificates/ approvals | | | | | |
| product function control circuit interface with | IO link | No | | | |
| protocol is supported AS-Interface protocol | | No | | | |
| product function bus communication | | No | | | |
| Communication/ Protocol | | | | | |
| touch protection on the front according to | IEC 60529 | finger-safe, for vertical conta | act from the front | | |
| protection class IP on the front according 60529 | to IEC | IP20 | | | |
| T1 value for proof test interval or service life IEC 61508 | according to | 20 y | | | |
| failure rate [FIT] with low demand rate accord 31920 | | 100 FIT | | | |
| with high demand rate according to SN 31920 | | 73 % | | | |
| with low demand rate according to SN | 31920 | 40 % | | | |
| proportion of dangerous failures | 5 0.1020 | | | | |
| B10 value with high demand rate according t | o SN 31920 | 1 000 000 | | | |
| Safety related data | | (_00),(10 14) | | | |
| at AWG cables for auxiliary contacts | ,000mig | 2x (20 16), 2x (18 14) | 7 2.0 mm) | | |
| finely stranded with core end proc | cessing | 2x (0.5 1.5 mm²), 2x (0.75 | | | |
| solid or stranded | | 2x (0.5 1.5 mm²), 2x (0.75 | 5 2.5 mm²) | | |
| type of connectable conductor cross-sect for auxiliary contacts | UOUS | | | | |
| at AWG cables for main contacts | liana | 2x (18 2), 1x (18 1) | | | |
| — finely stranded with core end proc | cessing | 2x (1 25 mm²), 1x (1 35 | 5 mm²) | | |
| — solid or stranded | | 2x (1 35 mm²), 1x (1 50 | | | |
| — solid | | 2x (1 35 mm²), 1x (1 50 | | | |
| for main contacts | | 0 (4 05 0) 4 (4 5 | 2) | | |
| type of connectable conductor cross-sect | tions | | | | |
| of magnet coil | | Screw-type terminals | | | |
| at contactor for auxiliary contacts | | Screw-type terminals | | | |
| for auxiliary and control circuit | | screw-type terminals | | | |
| for main current circuit | | screw-type terminals | | | |
| type of electrical connection | | | | | |
| Connections/ Terminals | | | | | |
| — at the side | | 10 mm | | | |
| — downwards | | 10 mm | | | |
| — upwards | | 10 mm | | | |
| — backwards | | 0 mm | | | |
| — forwards | | 10 mm | | | |
| • for live parts | | | | | |
| — downwards | | 10 mm | | | |
| — at the side | | 10 mm | | | |
| — upwards | | 10 mm | | | |
| | | | | | |

other **Dangerous Good**

Transport Information Confirmation

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=3RA2435-8XF32-1NB3

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA2435-8XF32-1NB3

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

https://support.industry.siemens.com/cs/ww/en/ps/3RA2435-8XF32-1NB3

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2435-8XF32-1NB3&lang=en

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2435-8XF32-1NB3/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2435-8XF32-1NB3&objecttype=14&gridview=view1

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