SIEMENS

Data sheet

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 | <u>3RT2035-1NB30</u> | | |
| 2 of the supplied contactor | <u>3RT2035-1NB30</u> | | |
| 3 of the supplied contactor | <u>3RT2027-1NB30</u> | | |
| of the supplied RS assembly kit | <u>3RA2933-2C</u> | | |
| of the supplied function module for wye-delta circuits | <u>3RA2816-0EW20</u> | | |
| 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 (operating 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 | | |

| 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 | |
| ● at 50 Hz | 82 VA |
| • at 60 Hz | 82 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.64 |
| • at 60 Hz | 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 | 0.26 |
| • at 50 Hz | 0.36 |
| • at 60 Hz | 0.39 28 W |
| _closing power of magnet coil at DC holding power of magnet coil at DC | 28 W 4 W |
| Auxiliary circuit | + vv |
| number of NC contacts for auxiliary contacts | |
| instantaneous contacts | 3 |
| number of NO contacts for auxiliary contacts | • |
| instantaneous contact | 3 |
| contact reliability of auxiliary contacts | S < 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 | |
| — 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 | 5 | 10 mm | | | | | |
|---|--|-------------------------------------|---|---------------------|--|--|--|
| for live parts | | | | | | | |
| — forwards | | 10 mm | 10 mm | | | | |
| — backwards | | 0 mm | mm | | | | |
| — upwards | | 10 mm | | | | | |
| — downwards | 5 | 10 mm | | | | | |
| — at the side | | 10 mm | | | | | |
| Connections/ Terminals | s | | | | | | |
| type of electrical con | nection | | | | | | |
| for main current | circuit | screw-type terminals | | | | | |
| for auxiliary and | control circuit | screw-type terminals | | | | | |
| at contactor for a | auxiliary contacts | Screw-type terminals | | | | | |
| of magnet coil | - | Screw-type terminals | | | | | |
| | nductor cross-sections for main contacts | | | | | | |
| solid | | 2x (1 35 mm²), 1x (1 50 | mm²) | | | | |
| solid or stranded | 1 | | 2x (1 35 mm ²), 1x (1 50 mm ²) | | | | |
| | vith core end processing | 2x (1 25 mm²), 1x (1 35 | · | | | | |
| | conductor cross-sections | | , | | | | |
| for auxiliary cont | tacts | | | | | | |
| — solid or stra | | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | | | | |
| — finely stran | finely stranded with core end processing | | 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) | | | | |
| - | or auxiliary contacts | 2x (20 16), 2x (18 14) | | | | | |
| Safety related data | , | | | | | | |
| | mand rate according to SN 31920 | 1 000 000 | | | | | |
| proportion of danger | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | d rate according to SN 31920 | 40 % | | | | | |
| | d rate according to SN 31920 | 73 % | | | | | |
| | w demand rate according to SN 31920 | 100 FIT | | | | | |
| T1 value for proof test interval or service life according to IEC 61508 | | 20 a | | | | | |
| protection class IP or | n the front according to IEC 60529 | IP20 | | | | | |
| - | he front according to IEC 60529 | finger-safe, for vertical contac | finger-safe, for vertical contact from the front | | | | |
| Communication/ Proto | - | | | | | | |
| product function bus | communication | No | | | | | |
| protocol is supported A | | No | | | | | |
| | I circuit interface with IO link | No | | | | | |
| Certificates/ approvals | | | | | | | |
| General Product App | noval Declaration | of Conformity | Test Certificates | Marine / Shipping | | | |
| | Declaration | • | | Marine / Onipping | | | |
| <u>Confirmation</u> | | UK CA | <u>Type Test Certific-</u> ates/Test Report | B U REAU VERITAS | | | |
| other | Dangerous Good | | | | | | |
| Confirmation | Transport Information | | | | | | |

| - | | | | | |
|---|-------------|------|------|--------|-------------|
| | The | r in | forr | nar | in in |
| | UIIC | | 1011 | 110.01 | <u>e</u> 11 |

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.sie 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=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,...)

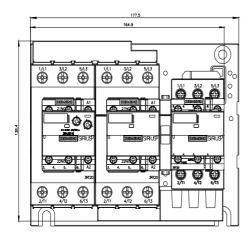
https://support.industry.siemens.com/cs/ww/en/ps/3RA2435-8XF32-1NB3

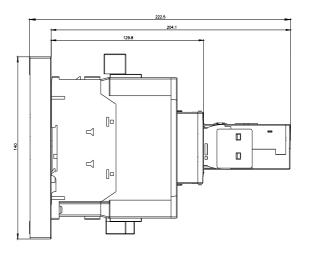
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA2435-8XF32-1NB3&lang=en

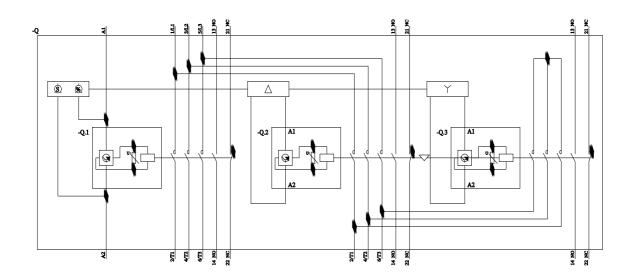
Characteristic: Tripping characteristics, I2t, Let-through current

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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