SIEMENS

Data sheet

3RA2435-8XF32-1AC2

STAR-DELTA (WYE-D.) COMBINATION AC3:37KW/400V 24V AC 50/60HZ SIZE S2, SCREW CONNECTION ELECTR. AND MECH. INTERLOCK 3NO+3NC INTEGR.,



product brand name SIRIUS Product designation star-delta (wye-delta) contactor assembly 3RA24 Manufacturer article number • 1 of the supplied contactor 3RT2035-1AC20 3RT2035-1AC20 • 2 of the supplied contactor • 3 of the supplied contactor 3RT2027-1AC20 3RA2934-2BB1 • of the supplied RS assembly kit • of the supplied function module for wye-delta 3RA2816-0EW20 circuits

| Gonoral | technical | data |
|---------|-----------|-------|
| General | lecinica | uala. |

| V | 690 | |
|---------------|------------|--|
| | 3 | |
| kV | 6 | |
| | | |
| | 10 000 000 | |
| | 10 000 000 | |
| | | |
| | | |
| | IP20 | |
| | | |
| | Q | |
| Main circuit: | | |
| | 3 | |
| | 0 | |
| | | |

| Number of NO contacts for main contacts | - | 3 |
|--|-----|----------|
| Operating voltage | | |
| • at AC-3 Rated value maximum | V | 690 |
| Operating current | - | |
| • at AC-1 | | |
| — at 400 V at ambient temperature 40 °C Rated value | А | 60 |
| — at 400 V at ambient temperature 60 °C Rated value | А | 55 |
| • at AC-2 at 400 V Rated value | А | 80 |
| • at AC-3 | | |
| — at 400 V Rated value | А | 80 |
| Operating power | | |
| • at AC-2 at 400 V Rated value | kW | 37 |
| • at AC-4 at 400 V Rated value | kW | 40 |
| Operating power | _ | |
| • at AC-3 | | |
| — at 400 V Rated value | kW | 37 |
| Operating frequency | - | |
| • at AC-3 maximum | 1/h | 1 000 |
| No-load switching frequency | 1/h | 1 500 |
| Control circuit/ Control: | | |
| Type of voltage of the control supply voltage | | AC |
| Control supply voltage 1 with AC | | |
| • at 50 Hz Rated value | V | 24 |
| • at 60 Hz Rated value | V | 24 |
| Operating range factor control supply voltage rated value of the magnet coil with AC | | |
| • at 50 Hz | | 0.8 1.1 |
| ● at 60 Hz | | 0.85 1.1 |
| Auxiliary circuit: | | |
| Number of NC contacts | | |
| for auxiliary contacts | | |
| — instantaneous contact | | 3 |
| — lagging switching | | 0 |
| Number of NO contacts | | |
| for auxiliary contacts | | |
| — instantaneous contact | | 3 |
| — leading contact | | 0 |
| Product expansion Auxiliary switch | | No |
| Operating current of the auxiliary contacts at AC-12 maximum | А | 10 |

| Operating current of the auxiliary contacts at AC-15 | | |
|--|----|--|
| • at 230 V | А | 6 |
| • at 400 V | А | 3 |
| Operating current of the auxiliary contacts at DC-13 | - | |
| • at 24 V | А | 10 |
| • at 60 V | А | 2 |
| • at 110 V | А | 1 |
| • at 220 V | А | 0.3 |
| Contact reliability of the auxiliary contacts | _ | < 1 error per 100 million operating cycles |
| JL/CSA ratings: | | |
| Contact rating of the auxiliary contacts acc. to UL | | A600 / Q600 |
| Short-circuit: | | |
| Design of the fuse link | | |
| for short-circuit protection of the main circuit | | |
| — with type of assignment 1 required | | gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A |
| — with type of assignment 2 required | | gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 80 A |
| • for short-circuit protection of the auxiliary switch | | fuse gL/gG: 10 A |
| required | | |
| nstallation/ mounting/ dimensions: | | |
| mounting position | | +/-180° rotation possible on vertical mounting |
| | | surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| Mounting type | _ | screw fixing |
| Height | mm | 142 |
| Width | mm | 177.5 |
| Depth | mm | 223 |
| Required spacing | | |
| with side-by-side mounting | | |
| — forwards | mm | 10 |
| — Backwards | mm | 0 |
| — upwards | mm | 10 |
| — downwards | mm | 10 |
| — at the side | mm | 10 |
| for grounded parts | | |
| — forwards | mm | 10 |
| — Backwards | mm | 0 |
| — upwards | mm | 10 |
| — at the side | mm | 10 |
| — downwards | mm | 10 |
| for live parts | | |
| — forwards | mm | 10 |
| | | |

| — Backwards | mm | 0 |
|---------------|----|----|
| — upwards | mm | 10 |
| — downwards | mm | 10 |
| — at the side | mm | 10 |

| Connections/ Terminals: | | |
|--|-----|-------------------------------------|
| Type of electrical connection | | |
| for main current circuit | | screw-type terminals |
| for auxiliary and control current circuit | | screw-type terminals |
| Type of connectable conductor cross-section | | |
| for main contacts | | |
| — single or multi-stranded | | 2x (1 35 mm²), 1x (1 50 mm²) |
| — finely stranded with core end processing | | 2x (1 25 mm²), 1x (1 35 mm²) |
| for AWG conductors for main contacts | | 2x (18 2), 1x (18 1) |
| for auxiliary contacts | | |
| — single or multi-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 conductors for auxiliary contacts | | 2x (20 16), 2x (18 14) |
| Apparent pick-up power of the magnet coil with AC | | |
| • at 50 Hz | V·A | 210 |
| • at 60 Hz | V·A | 188 |

| Safety related data: | | |
|--|-----|--|
| B10 value with high demand rate acc. to SN 31920 | | 1 000 000 |
| Proportion of dangerous failures | _ | |
| with low demand rate acc. to SN 31920 | % | 40 |
| with high demand rate acc. to SN 31920 | % | 73 |
| Failure rate [FIT] with low demand rate acc. to SN 31920 | FIT | 100 |
| T1 value for proof test interval or service life acc. to IEC 61508 | у | 20 |
| Protection against electrical shock | _ | finger-safe when touched vertically from front acc. to IEC 60529 |
| Mechanical data: | | |
| Size of contactor | | S2 |
| Communication/ Protocol: | | |
| Product function Bus communication | | No |
| Protocol is supported | - | |
| AS-interface protocol | | No |
| Product function Control circuit interface with IO link | _ | No |
| Ambient conditions: | | |
| Installation altitude at height above sea level maximum | m | 2 000 |

| Ambient temperature | | |
|--------------------------------------|----|---------|
| during operation | °C | -25 +60 |
| • during storage | °C | -55 +80 |

| Certificates/ appro | ovals: | |
|---------------------|--------------------|-----------------------------|
| General Produ | uct Declaration of | other |
| Approval | Conformity | |
| EAC | EG-Konf. | Environmental Confirmations |

Further information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

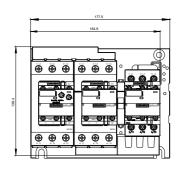
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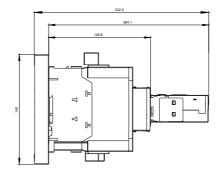
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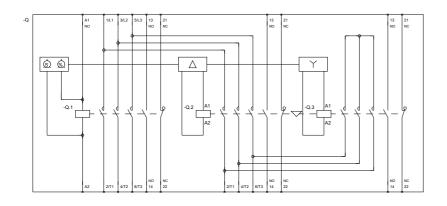
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RA24358XF321AC2

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RA24358XF321AC2/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RA24358XF321AC2&lang=en







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