

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



General technical data:

| | | |
|---|----|--|
| product brand name | | SIRIUS |
| Product function | | wye-delta combination |
| Size of contactor | | S2 |
| Protection class IP / on the front | | IP20 |
| Degree of pollution | | 3 |
| Insulation voltage / with degree of pollution 3 / Rated value | V | 690 |
| Installation altitude / at height above sea level / maximum | m | 2,000 |
| Ambient temperature / during storage | °C | -55 ... +80 |
| Ambient temperature / during operation | °C | -25 ... +60 |
| Surge voltage resistance / Rated value | kV | 6 |
| Active power loss / per conductor / typical | W | 2.2 |
| Manufacturer article number <ul style="list-style-type: none"> • of the supplied function module for wye-delta circuits • 1 / of the supplied contactor • 2 / of the supplied contactor • 3 / of the supplied contactor • of the supplied RS assembly kit | | 3RA2816-0EW20 3RT2035-1AC20 3RT2035-1AC20 3RT2027-1AC20 3RA2934-2BB1 |
| Mechanical service life (switching cycles) <ul style="list-style-type: none"> • of the contactor / typical | | 10,000,000 |

- of the contactor with added auxiliary switch block / typical

10,000,000

Communication/ Protocol:

Product function

- Bus communication
- Control circuit interface with IO link

No

No

Protocol / is supported / AS-interface protocol

No

Main circuit:

Number of poles / for main current circuit

3

Number of NC contacts / for main contacts

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
 - at ambient temperature 60 °C / Rated value
- at AC-2 / at 400 V / Rated value
- at AC-3 / at 400 V / Rated value

A

60

A

55

A

80

A

80

Operating power

- at AC-2 / at 400 V / Rated value
- at AC-3
 - at 400 V / Rated value
- at AC-4 / at 400 V / Rated value

kW

37

kW

37

kW

40

No-load switching frequency

1/h

1,500

Operating frequency

- at AC-1 / maximum
- at AC-2 / maximum
- at AC-3 / maximum
- at AC-4 / maximum

1/h

1,000

1/h

750

1/h

1,000

1/h

300

Control circuit/ Control:

Type of voltage / of the control supply voltage

AC

Control supply voltage / 1

- with AC / at 50 Hz / Rated value
- with AC / at 60 Hz / Rated value

V

24

V

24

Operating range factor control supply voltage rated value / of the magnet coil

- with AC / at 50 Hz
- with AC / at 60 Hz

0.8 ... 1.1

0.85 ... 1.1

Apparent pick-up power / of the magnet coil / with AC

| | | |
|--|-----|------|
| • at 50 Hz | V·A | 210 |
| • at 60 Hz | V·A | 188 |
| Inductive power factor / with closing power of the coil | | |
| • at 50 Hz | | 0.69 |
| • at 60 Hz | | 0.65 |
| Apparent holding power / of the magnet coil / with AC | | |
| • at 50 Hz | V·A | 17.2 |
| • at 60 Hz | V·A | 16.5 |
| Inductive power factor / with the holding power of the coil | | |
| • at 50 Hz | | 0.36 |
| • at 60 Hz | | 0.39 |

| Auxiliary circuit: | | |
|--|---|--|
| Product expansion / Auxiliary switch | | No |
| Contact reliability / of the auxiliary contacts | | < 1 error per 100 million operating cycles |
| 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 |
| Operating current / of the auxiliary contacts | | |
| • at AC-12 / maximum | A | 10 |
| • at AC-15 | | |
| • at 230 V | A | 6 |
| • at 400 V | A | 3 |
| • at DC-12 | | |
| • at 48 V | A | 6 |
| • at 60 V | A | 6 |
| • at 110 V | A | 3 |
| • at 220 V | A | 1 |
| • at DC-13 | | |
| • at 24 V | A | 10 |
| • at 48 V | A | 2 |
| • at 60 V | A | 2 |
| • at 110 V | A | 1 |
| • at 220 V | A | 0.3 |

| Short-circuit: | | |
|--------------------------------|--|--|
| Design of the fuse link | | |

- for short-circuit protection of the main circuit
 - with type of assignment 1 / required
- for short-circuit protection of the auxiliary switch / required

gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A
fuse gL/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 |
| Mounting type | | screw fixing |
| Width | mm | 177.5 |
| Height | mm | 142 |
| Depth | mm | 223 |

Connections/ terminals:

| | | |
|--|--|--|
| Design of the electrical connection <ul style="list-style-type: none"> • for main current circuit • for auxiliary and control current circuit | | screw-type terminals screw-type terminals |
| Type of connectable conductor cross-section <ul style="list-style-type: none"> • for main contacts <ul style="list-style-type: none"> • single or multi-stranded • finely stranded / with core end processing • for AWG conductors / for main contacts | | 2x (1 ... 35 mm²), 1x (1 ... 50 mm²) 2x (1 ... 25 mm²), 1x (1 ... 35 mm²) 2x (18 ... 2), 1x (18 ... 1) |
| Type of connectable conductor cross-section <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> • single or multi-stranded • finely stranded / with core end processing • for AWG conductors / for auxiliary contacts | | 2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²) 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) 2x (20 ... 16), 2x (18 ... 14) |

Certificates/ approvals:

Declaration of Conformity



UL/CSA ratings:

| | | |
|--|--|-------------|
| Contact rating / of the auxiliary contacts / acc. to UL | | A600 / Q600 |
|--|--|-------------|

Safety related data:

| | | |
|---|-----|-----------|
| B10 value / with high demand rate <ul style="list-style-type: none"> • acc. to SN 31920 | | 1,000,000 |
| Failure rate [FIT] / with low demand rate <ul style="list-style-type: none"> • acc. to SN 31920 | FIT | 100 |

Proportion of dangerous failures

- with low demand rate / acc. to SN 31920
- with high demand rate / acc. to SN 31920

| | |
|---|----|
| % | 40 |
| % | 73 |

T1 value / for proof test interval or service life

- acc. to IEC 61508

| | |
|---|----|
| a | 20 |
|---|----|

Further information:**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrymall>

Cax online generator

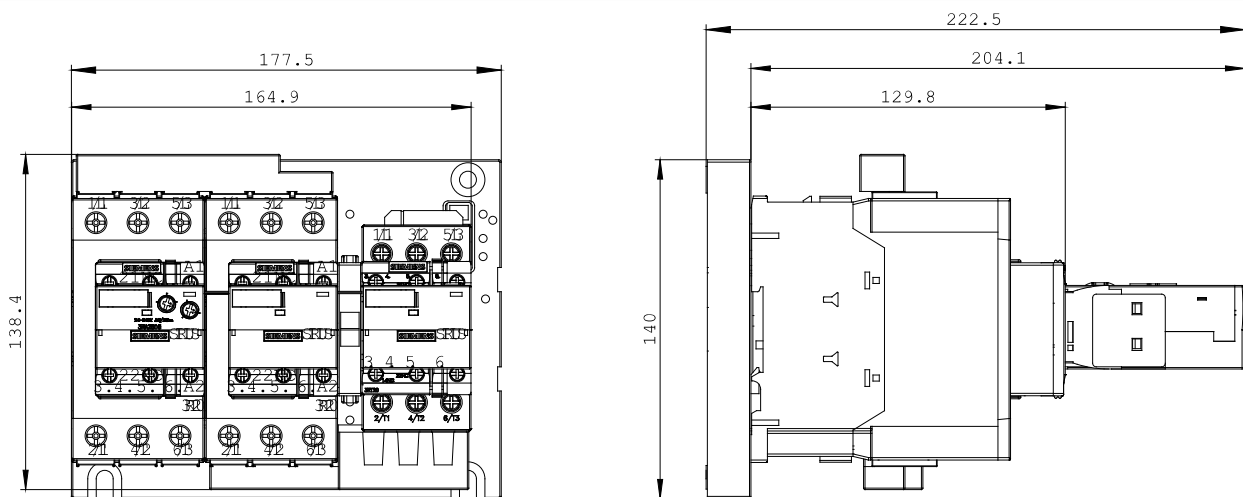
<http://www.siemens.com/cax>

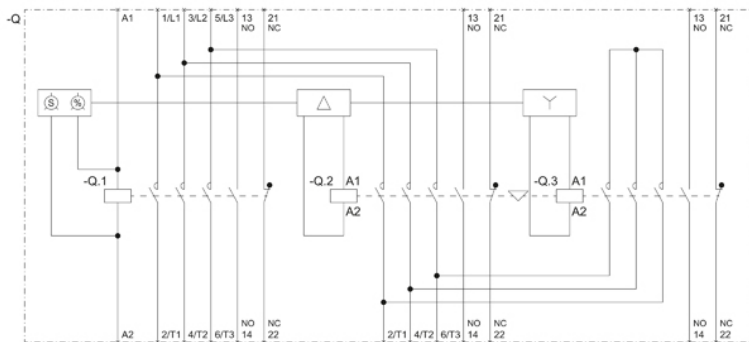
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RA2435-8XF32-1AC2/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA2435-8XF32-1AC2





last change:

Dec 17, 2014