Product data sheet



CONTACTOR COMBINATION, STAR-DELTA (PREASSEMBLED) WITH LATERAL TIME RELAY, 3PH, 5.5KW/400V, 3-POLE, SIZE S00,S00,S00, EL. AND MECH. LATCHED IN, SCREW TERMINAL, 230V AC, 50/60HZ

| General details: | | |
|---|----|---------------------|
| product brand name | | SIRIUS |
| Product designation | | contactor assembly |
| Product function | | wye-delta-contactor |
| Size of the contactor | | S00, S00, S00 |
| 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 a height over sea level / maximum | m | 2,000 |
| Ambient temperature | | |
| during operating | °C | -25 +60 |
| during storage | °C | -55 +80 |
| during transport | °C | -55 +80 |
| Reference code | | |
| according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 | | К |
| according to DIN EN 61346-2 | | Q |
| Mechanical operating cycles as operating time | | |
| of the main contacts / typical | | 30,000,000 |
| of the auxiliary contacts / typical | | 10,000,000 |

| Number of poles / for main current circuit 3 3 | of the contactor with added auxiliary switch block / typical | | 10,000,000 |
|--|--|----|------------------|
| Number of poles / for main current circuit Number of NC contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum V 690 Operating current / at AC-3 / at 400 V / rated value * at 400 V / rated value * at 500 V / rated value * at 600 V / rated value * WW 7.2 * at 600 V / rated value * WW 9.2 Control circuits Design of activation Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency * 1 / rated value * 1 / rated value * 1 / rated value * 50 Control supply voltage fractor control supply voltage rated value / of the magnet coil * at 50 Hz / rated value * or AC / at 50 Hz / rated | - of the contactor with added advinary switch block / typical | | 10,000,000 |
| Number of NC contacts / for main contacts Operating voltage / at AC-3 / rated value / maximum Operating current / at AC-3 / at 400 V / rated value A 12 Service power / at AC-3 - at 400 V / rated value - at 400 V / rated value - at 680 V / rated value - besign of activation Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency - 1 / rated value - 1 / rated value - 1 / rated value - 2 30 Control supply voltage frequency - 1 / rated value - 1 / rated value - 2 30 Control supply voltage frequency - 1 / rated value - 2 30 - | Main circuit: | | |
| Operating voltage / at AC-3 / rated value / maximum | Number of poles / for main current circuit | | 3 |
| Operating current / at AC-3 / at 400 V / rated value Service power / at AC-3 * at 400 V / rated value * at 500 V / rated value * at 690 V / rated value * at 690 V / rated value * at 690 V / rated value * besign of activation Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency * 1 / rated value * AC Control supply voltage frequency * 1 / rated value * 50 Control supply voltage / 1 * for AC / at 50 Hz / rated value * operating range factor control supply voltage rated value / of the magnet coll * at 50 Hz * for AC * for DC * at 60 Hz * for AC * for DC Auxiliary circuit: Product extension / auxiliary switch * lagging switching * lagging switching * leading sw | Number of NC contacts / for main contacts | | 0 |
| Service power / at AC-3 • at 400 V / rated value • at 500 V / rated value • at 690 V / rated value Control circuit: Design of activation Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency • 1/ rated value Control supply voltage frequency • 1/ rated value Control supply voltage / 1 • for AC / at 50 Hz / rated value V 230 Operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz • for AC • at 60 Hz • for BC Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts • leaging switching Number of NC contacts / for auxiliary contacts • leading switching • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required • fuse gL/gG: 35 A | Operating voltage / at AC-3 / rated value / maximum | V | 690 |
| at 400 V / rated value at 500 V / rated value at 690 V / rated value www 9.2 Control circuit: Design of activation Conventional Design of the surge suppressor without Voltage type / of control feed voltage Control supply voltage frequency - 1 / rated value Hz 50 Control supply voltage frequency - 1 / rated value Control supply voltage / 1 - for AC / at 50 Hz / rated value operating range factor control supply voltage rated value / of the magnet coil - at 50 Hz - for AC - at 60 Hz - for AC - it or DC Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts - instantaneous switching - leading switching Number of NO contacts / for auxiliary contacts - instantaneous switching - leading switching Number of the fuse link - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit protection of the main circuit - with type of assignment 1 / required | Operating current / at AC-3 / at 400 V / rated value | Α | 12 |
| at 500 V / rated value at 690 V / rated value Control circuit: Design of activation Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency - 1 / rated value AC Control supply voltage frequency - 1 / rated value Control supply voltage frequency - 1 / rated value - tor AC / at 50 Hz / rated value operating range factor control supply voltage rated value / of the magnet coil - at 50 Hz - for AC - tor | Service power / at AC-3 | | |
| - at 690 V / rated value | • at 400 V / rated value | kW | 5.5 |
| Control circuit: Design of activation Conventional Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency - 1 / rated value Control supply voltage frequency - 1 / rated value Control supply voltage / 1 - for AC / at 50 Hz / rated value Operating range factor control supply voltage rated value / of the magnet coll - at 50 Hz - for AC - at 60 Hz - for AC - tor AC - at 60 Hz - for AC - tor DC Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts - lagging switching Number of NO contacts / for auxiliary contacts - instantaneous switching - leading switching Number of the fuse link - for short-circuit protection of the auxiliary switch / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - for short-circuit required - fuse gL/gG: 35 A | • at 500 V / rated value | kW | 7.2 |
| Design of activation Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency - 1 / rated value Hz 50 Control supply voltage / 1 - for AC / at 50 Hz / rated value - operating range factor control supply voltage rated value / of the magnet coil - at 50 Hz - for AC - at 60 Hz - for AC - tor DC Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts - instantaneous switching - leading switching Number of NC contacts / for auxiliary contacts - instantaneous switching - leading switching Short-circuit: Design of the fuse link - for short-circuit protection of the auxiliary switch / required - for short-circuit protection of the main circuit - with type of assignment 1 / required - fuse gL/gG: 35 A | • at 690 V / rated value | kW | 9.2 |
| Design of the surge suppressor Voltage type / of control feed voltage Control supply voltage frequency - 1 / rated value Hz 50 Control supply voltage / 1 - for AC / at 50 Hz / rated value voperating range factor control supply voltage rated value / of the magnet coil - at 50 Hz - for AC - at 60 Hz - for AC - tor | Control circuit: | | |
| Voltage type / of control feed voltage Control supply voltage frequency 1 / rated value Hz 50 Control supply voltage /1 1 for AC / at 50 Hz / rated value operating range factor control supply voltage rated value / of the magnet coil 1 at 50 Hz 1 for AC 1 at 60 Hz 1 for AC 1 o.8 1.1 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts 1 lagging switching Number of NO contacts / for auxiliary contacts 1 leading switching Nort-circuit: Design of the fuse link 1 for short-circuit protection of the auxiliary switch / required 1 fuse gL/gG: 35 A | Design of activation | | conventional |
| Control supply voltage frequency 1 / rated value Control supply voltage / 1 1 for AC / AC | Design of the surge suppressor | | without |
| - 1 / rated value Control supply voltage / 1 - for AC / at 50 Hz / rated value operating range factor control supply voltage rated value / of the magnet coil - at 50 Hz - for AC - at 60 Hz - for AC - for AC - to For AC - for DC Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts - lagging switching Number of NO contacts / for auxiliary contacts - instantaneous switching - leading switching Nort-circuit: Design of the fuse link - for short-circuit protection of the main circuit - with type of assignment 1 / required - fuse gL/gC: 35 A | Voltage type / of control feed voltage | | AC |
| Control supply voltage / 1 • for AC / at 50 Hz / rated value operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz • for AC • at 60 Hz • for AC • for DC O.8 1.1 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts • lagging switching Number of NO contacts / for auxiliary contacts • instantaneous switching • leading switching Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | Control supply voltage frequency | | |
| • for AC / at 50 Hz / rated value Operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz • for AC • at 60 Hz • for AC • for DC O.85 1.1 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts • lagging switching Number of NO contacts / for auxiliary contacts • instantaneous switching • leading switching Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | • 1 / rated value | Hz | 50 |
| operating range factor control supply voltage rated value / of the magnet coil • at 50 Hz • for AC • at 60 Hz • for AC • for DC 0.85 1.1 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts • lagging switching Number of NO contacts / for auxiliary contacts • instantaneous switching • leading switching Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | Control supply voltage / 1 | | |
| the magnet coil at 50 Hz for AC at 60 Hz for AC of r DC Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts lagging switching Number of NO contacts / for auxiliary contacts instantaneous switching leading switching 2 leading switching 2 short-circuit: Design of the fuse link for short-circuit protection of the auxiliary switch / required fuse gL/gG: 10 A fuse gL/gG: 35 A | • for AC / at 50 Hz / rated value | V | 230 |
| • for AC • at 60 Hz • for AC • for AC • for DC • dx | operating range factor control supply voltage rated value / of the magnet coil | | |
| • at 60 Hz • for AC • for DC | • at 50 Hz | | |
| • for AC • for DC | • for AC | | 0.8 1.1 |
| • for DC O.8 1.1 Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts • lagging switching O Number of NO contacts / for auxiliary contacts • instantaneous switching • leading switching Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | • at 60 Hz | | |
| Auxiliary circuit: Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts • lagging switching 0 Number of NO contacts / for auxiliary contacts • instantaneous switching • leading switching 2 • leading switching 0 Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | • for AC | | 0.85 1.1 |
| Product extension / auxiliary switch Number of NC contacts / for auxiliary contacts • lagging switching 0 Number of NO contacts / for auxiliary contacts • instantaneous switching 2 • leading switching 0 Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | • for DC | | 0.8 1.1 |
| Number of NC contacts / for auxiliary contacts • lagging switching Number of NO contacts / for auxiliary contacts • instantaneous switching • leading switching 2 • leading switching 0 Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | Auxiliary circuit: | | |
| • lagging switching Number of NO contacts / for auxiliary contacts • instantaneous switching • leading switching Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | Product extension / auxiliary switch | | Yes |
| Number of NO contacts / for auxiliary contacts • instantaneous switching 2 • leading switching 0 Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | Number of NC contacts / for auxiliary contacts | | |
| instantaneous switching leading switching Short-circuit: Design of the fuse link for short-circuit protection of the auxiliary switch / required for short-circuit protection of the main circuit with type of assignment 1 / required fuse gL/gG: 35 A | lagging switching | | 0 |
| • leading switching Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | Number of NO contacts / for auxiliary contacts | | |
| Short-circuit: Design of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | • instantaneous switching | | 2 |
| Pesign of the fuse link • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 10 A fuse gL/gG: 35 A | leading switching | | 0 |
| • for short-circuit protection of the auxiliary switch / required • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 10 A fuse gL/gG: 35 A | Short-circuit: | | |
| • for short-circuit protection of the main circuit • with type of assignment 1 / required fuse gL/gG: 35 A | Design of the fuse link | | |
| • with type of assignment 1 / required fuse gL/gG: 35 A | • for short-circuit protection of the auxiliary switch / required | | fuse gL/gG: 10 A |
| | • for short-circuit protection of the main circuit | | |
| at type of coordination 2 / required fuse gL/gG: 20 A | • with type of assignment 1 / required | | fuse gL/gG: 35 A |
| | • at type of coordination 2 / required | | fuse gL/gG: 20 A |

| Installation/ mounting/ dimensions: | | | | |
|---|----|---|--|--|
| mounting position | | with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back | | |
| Mounting type | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 | | |
| Width | mm | 135 | | |
| Height | mm | 71 | | |
| Depth | mm | 148 | | |
| Distance, to be maintained, to the ranks assembly / sidewards | mm | 0 | | |
| Distance, to be maintained, to earthed part / sidewards | mm | 0 | | |
| Distance, to be maintained, conductive elements | | | | |
| • sidewards | mm | 0 | | |

Connection elements and terminals:

Design of the electrical connection / for main current circuit screw-type terminals

Certificates/ approvals:

Verification of suitability

CE / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA / PRS / ABS

General Product

Declaration of Conformity

Shipping Approval

Approval











other

other

Environmental Confirmations

Sicherheitstechnische Merkmale:

Contact reliability / of the auxiliary contacts

1 faulty switching per 100 million (17 V, 1 mA)

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

Cax online generator

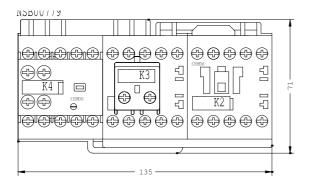
http://www.siemens.com/cax

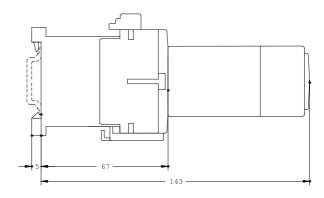
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

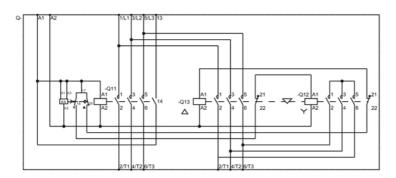
http://support.automation.siemens.com/WW/view/en/3RA1415-8XC31-1AP0/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RA1415-8XC31-1AP0}$







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