SIEMENS

Industry Automation and Drive Technologies Service & Support

3RT2015-1AP01

Main circuit:

Number of NC contacts / for main contacts

Number of NO contacts / for main contacts

CONTACTOR, AC3:3KW 1NO AC230V 50/60HZ

Technical / CAx data



CONTACTOR, AC-3, 3KW/400V, 1NO, AC 230V, 50/60 HZ, 3-POLE, SZ S00 SCREW TERMINAL

| General technical data: | | |
|--|----|----------------------------|
| product brand name | | SIRIUS |
| Size of the contactor | | S00 |
| Product extension / auxiliary switch | | Yes |
| Protection class IP / on the front | | IP20 |
| Protection against electrical shock | | finger-safe |
| Degree of pollution | | 3 |
| Installation altitude / at a height over sea level / maximum | m | 2,000 |
| Ambient temperature / during storage | C | -55+80 |
| Ambient temperature / during operating | C | -25+60 |
| Shock resistance | | |
| at rectangular impulse | | |
| at AC | | 6,7g / 5 ms, 4,2g / 10 ms |
| at sine pulse | | |
| at AC | | 10,5g / 5 ms, 6,6g / 10 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Insulation voltage / rated value | V | 690 |
| Mechanical operating cycles as operating time | | |
| of the contactor / typical | | 30,000,000 |
| of the contactor with added auxiliary switch block / typical | | 10,000,000 |
| of the contactor with added electronics- compatible auxiliary switch block / typical | | 5,000,000 |

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| On anoting a compant | | |
|--|-----|---------|
| Operating current • at AC-1 / at 400 V | | |
| | Α | 18 |
| at 40 ℃ ambient temperature / rated | A | 10 |
| value | А | 16 |
| at 60 ℃ ambient temperature / rated | A | 10 |
| value | ۸ | 7 |
| at AC-2 / at 400 V / rated value | A | 7 |
| at AC-3 / at 400 V / rated value | A | 7 |
| at AC-4 / at 400 V / rated value | Α | 6.5 |
| Operating current | | |
| with 1 current path / at DC-1 | | |
| at 24 V / rated value | А | 15 |
| at 110 V / rated value | Α | 1.5 |
| with 2 current paths in series / at DC-1 | | |
| at 24 V / rated value | Α | 15 |
| at 110 V / rated value | Α | 8.4 |
| with 3 current paths in series / at DC-1 | | |
| at 24 V / rated value | Α | 15 |
| at 110 V / rated value | Α | 15 |
| with 1 current path / at DC-3 / at DC-5 | | |
| at 24 V / rated value | Α | 15 |
| at 24 V / rated value at 110 V / rated value | A | 0.1 |
| | | 0.1 |
| with 2 current paths in series / at DC-3 / at DC-5 | | |
| at 24 V / rated value | Α | 15 |
| at 110 V / rated value | Α | 0.25 |
| with 3 current paths in series / at DC-3 / at DC-5 | | |
| at 24 V / rated value | Α | 15 |
| at 110 V / rated value | Α | 15 |
| Service power | | |
| at AC-2 / at 400 V / rated value | kW | 3 |
| at AC-3 / at 400 V / rated value | kW | 3 |
| at AC-4 / at 400 V / rated value | kW | 3 |
| Active power loss / per conductor / typical | W | 0.4 |
| Off-load operating frequency | | 0.7 |
| • at AC | 1/h | 10,000 |
| at DC | 1/h | 10,000 |
| Frequency of operation / at AC-1 / according to IEC | 1/h | 1,000 |
| 60947-6-2 | | 7 |
| Frequency of operation / at AC-2 / according to IEC 60947-6-2 | 1/h | 750 |
| Frequency of operation / at AC-3 / according to IEC 60947-6-2 | 1/h | 750 |
| Frequency of operation / at AC-4 / according to IEC 60947-6-2 | 1/h | 250 |
| 0 | | |
| Control circuit: | | A.C. |
| Type of voltage / of the controlled supply voltage Control supply voltage / 1 | | AC |
| at 50 Hz / for AC / rated value | V | 230 |
| at 60 Hz / for AC / rated value | V | 230 |
| operating range factor control supply voltage rated | V | 200 |
| value / of the magnet coil | | |
| at 50 Hz / for AC | | 0.81.1 |
| at 60 Hz / for AC | | 0.851.1 |
| | | |

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| Apparent pull-in power / of the solenoid / for AC | V-A | 27 |
|---|--------|--|
| Apparent holding power / of the solenoid / for AC | V-A | 4.2 |
| Inductive power factor | | 0.8 |
| with the pull-in power of the coil with the pull-in power of the coil | | |
| with the pull-in power of the coil | _ | 0.25 |
| Closing delay | ms | 935 |
| • at AC | - 1115 | 933 |
| Opening delay • at AC | ms | 3.514 |
| Arcing time | ms | 1015 |
| | | |
| Auxiliary circuit: Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contacts / | - | 0 |
| instantaneous switching | | |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 1 |
| Operating current / of the auxiliary contacts | | |
| at AC-12 / maximum | Α | 10 |
| at AC-15 | | |
| at 230 V | Α | 6 |
| at 400 V | Α | 3 |
| at DC-12 | | |
| at 48 V | Α | 6 |
| at 60 V | Α | 6 |
| at 110 V | Α | 3 |
| at 220 V | Α | 1 |
| • at DC-13 | | |
| • at 24 V | Α | 6 |
| • at 48 V | Α | 2 |
| • at 60 V | Α | 2 |
| • at 110 V | Α | 1 |
| • at 220 V | A | 0.3 |
| • at 220 V | , , | 0.0 |
| Short-circuit: | | |
| Design of the fuse link • for short-circuit protection of the auxiliary | | fuse gL/gG: 10 A |
| switch / required | | 1000 gL/gO. 1071 |
| · | | |
| for short-circuit protection of the main circuit | | |
| with type of assignment 1 / required | | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 35 A |
| at type of coordination 2 / required | | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE: 20A |
| Installation/mounting/dimensions: | | |
| Built in orientation | | vertical |
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| Type of fixing/fixation / series installation | | Yes |
| Width | mm | 45 |
| Height | mm | 57.5 |
| Depth | mm | 73 |
| Distance to be maintained to the ranks assembly / | mm | Λ |

Distance, to be maintained, to the ranks assembly / mm 0 sidewards

Distance, to be maintained, to earthed part / sidewards mm 6

Connections:

Design of the electrical connection

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| for main current circuit | screw-type terminals |
|---|---|
| for auxiliary and control current circuit | screw-type terminals |
| Type of the connectable conductor cross-section | |
| for main contacts | |
| solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 |
| | mm² |
| finely stranded | |
| with conductor end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| for AWG conductors / for main contacts | 2x (20 16), 2x (18 14), 2x 12 |
| for auxiliary contacts | |
| solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 |
| final v atron do d | mm² |
| finely stranded | 2v /0 F |
| with conductor 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), 2x 12 |
| Certificates/approvals: | |
| General Product Approval | Declaration of Test Certificates |
| Control of Tourist Approval | Conformity |
| X CCC X CSA X GOST | Consciel Test |
| CCC SA GOST | ■ UL EC-Declaration Special Test Certificate |
| Shipping Approval | |
| | |
| ABS (America Nov. Det Nor. CL / Germani | ■ LRS / Lloyds R ■ PRS / Polski R ■ RINA / Registre |
| Shipping other | |
| Approval | |
| RMRS / Russ Confirmation | |
| Tiouseriola di | |
| | |
| UL/CSA ratings: | |
| yielded mechanical performance (hp) | |
| for single-phase squirrel cage motors | hn 0.25 |
| • at 110/120 V / rated value | hp 0.25 |
| at 230 V / rated value | hp 0.75 |
| for three-phase squirrel cage motors | |
| at 200/208 V / rated value | hp 1.5 |
| at 220/230 V / rated value | hp 2 |
| at 460/480 V / rated value | hp 3 |
| at 575/600 V / rated value | hp 5 |
| Operating current (FLA) / for three-phase squirrel cage | |
| motors | Λ 49 |
| at 480 V / rated value | A 4.8 |
| at 600 V / rated value | A 6.1 |
| Contact rating designation / for auxiliary contacts / according to UL | A600 / Q600 |
| | |
| Safety:related Parameter: | |
| B10 value / with high demand rate | 4.000.000 |
| according to SN 31920 | 1,000,000 |
| T1 value / for proof test interval or service life | - 00 |
| according to IEC 61508 | a 20 |
| Proportion of dangerous failures | 9/ 40 |
| with low demand rate / according to SN 31920 | % 40 |
| | % 73 |
| with high demand rate / according to SN 31920 | /0 /3 |
| | |
| Failure rate (FIT value) / with low demand rate | |
| | |

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| according to SN 31920 | FIT | 100 |
|---|-----|------------|
| Product function | | |
| mirror contact to IEC 60947-4-1 | | Yes |
| comment | | with 3RH29 |
| positively driven operation to IEC 60947-5- 1 | | No |

Further information:

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

Industry Mall (Online ordering system)

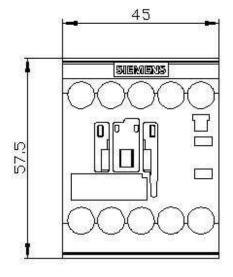
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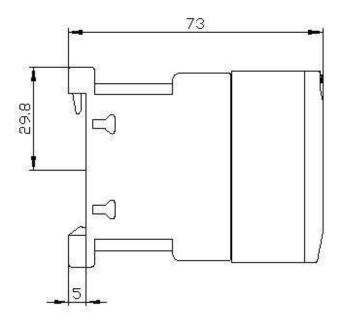
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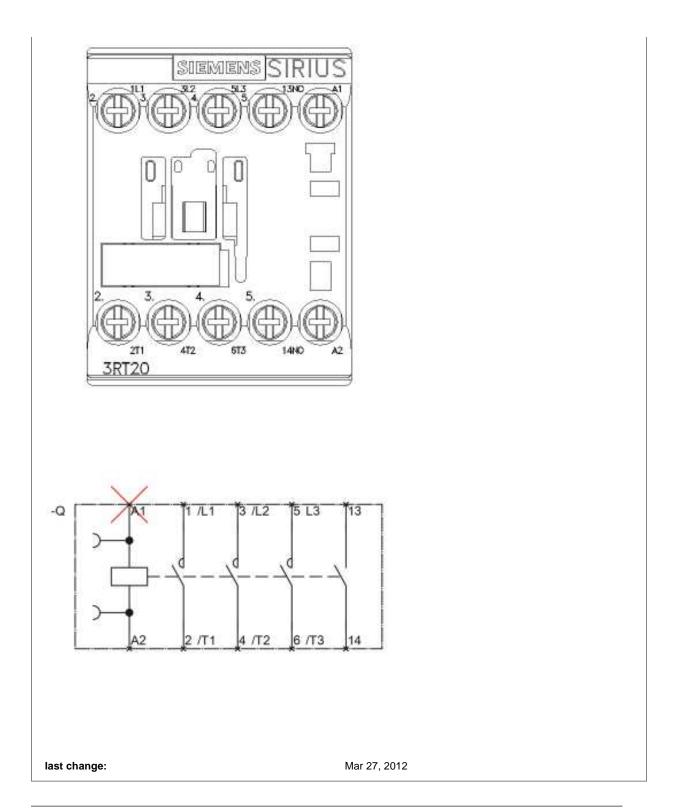
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT2015-1AP01/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RT2015-1AP01





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