SIEMENS

Product data sheet 3RH2140-1AP00



CONTACTOR RELAY, 4NO AC 230V, 50/60 HZ, SZ S00, SCREW TERMINAL

| General technical data: | | |
|--|----|---------------------------|
| Product brand name | | SIRIUS |
| Product designation | | contactor relay |
| Size of the contactor | | S00 |
| Protection class IP / frontal/front side | | 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 transport | °C | -55 80 |
| during storage | °C | -55 80 |
| during the operating phase | °C | -25 60 |
| Resistance against shock | | 10g / 5 ms and 5g / 10 ms |
| Impulse voltage resistance / rated value | kV | 6 |
| Item designation | | |
| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | К |
| according to DIN EN 61346-2 | | К |
| 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 | 10,000,000 |

| Control circuit: | | |
|---|-----|----------|
| Type of voltage / of the controlled supply voltage | | AC |
| Control supply voltage frequency | | |
| • 1 / rated value | Hz | 50 |
| • 2 / rated value | Hz | 60 |
| Control supply voltage / 1 | | |
| • 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 value / of the solenoid | | |
| • at 50 Hz / for AC | | 0.8 1.1 |
| • at 60 Hz / for AC | | 0.85 1.1 |
| Apparent pull-in power / of the solenoid / for AC | V·A | 37 |
| Apparent holding power / of the solenoid / for AC | V·A | 5.7 |
| Power factor inductive | | |
| • at pull-in power of the coil | | 0.8 |
| at holding power of the coil | | 0.25 |

| Auxiliary circuit: | | |
|---|---|---|
| Product extension / auxiliary switch | | Yes |
| Identification number and letter for switching elements | | 40 E |
| Contact reliability / of the auxiliary contacts | | 1 faulty switching per 100 million (17 V, 1 mA) |
| Number of NC contacts / for auxiliary contact | | 0 |
| instantaneous switching | | 0 |
| delayed switching | | 0 |
| asynchronous switching | | 0 |
| lagging switching | | 0 |
| Number of NO contacts / for auxiliary contact | | 4 |
| instantaneous switching | | 4 |
| delayed switching | | 0 |
| asynchronous switching | | 0 |
| leading switching | | 0 |
| Number of changeover contacts | | |
| for auxiliary contact | | 0 |
| Operating current / of the auxiliary contacts | | |
| • at AC-12 / maximum | Α | 10 |
| • at AC-15 | | |

| А | 10 |
|---|------------------|
| Α | 3 |
| Α | 2 |
| Α | 1 |
| | |
| | |
| Α | 6 |
| Α | 3 |
| Α | 1 |
| | |
| Α | 6 |
| Α | 1 |
| Α | 0.3 |
| | A A A A |

| Short-circuit: | | |
|--|--|--|
| Design of the fuse link / for short-circuit protection of the auxiliary switch | | |
| • required | | Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 A) |

| Installation/mounting/dimensions: | | |
|---|----|--|
| Built in orientation | | vertical |
| Type of fixing/fixation | | screw and snap-on mounting onto 35 mm standard mounting rail |
| Width | mm | 45 |
| Height | mm | 57.5 |
| Depth | mm | 72 |
| Distance, to be maintained, to the ranks assembly | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |
| • upwards | mm | 0 |
| • downwards | mm | 0 |
| • sidewards | mm | 0 |
| Distance, to be maintained, to earthed part | | |
| • forwards | mm | 6 |
| • backwards | mm | 0 |
| • upwards | mm | 6 |
| • downwards | mm | 6 |
| • sidewards | mm | 6 |
| Distance, to be maintained, conductive elements | | |
| • forwards | mm | 0 |
| • backwards | mm | 0 |

| • upwards | mm | 0 |
|-------------|----|---|
| • downwards | mm | 0 |
| • sidewards | mm | 0 |

| Connections: | | | |
|---|---|--|--|
| Design of the electrical connection | | | |
| for auxiliary and control current circuit | screw-type terminals | | |
| Type of connectable conductor cross section | | | |
| for auxiliary contacts | | | |
| • solid | 2x (0.5 1.5 mm2), 2x (0.75 2.5 mm2), 2x 4 mm2 | | |
| • finely stranded | | | |
| with wire 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: | | | |
|-----------------------------|--|---------------------|--|
| Verification of suitability | | CE / UL / CSA / CCC | |
| | | | |
| Safety: | | | |

| Safety: | | |
|--|-----|-------------|
| B10 value / with high demand rate | | |
| according to SN 31920 | | 1,000,000 |
| Proportion of dangerous failures | | |
| • with low demand rate / according to SN 31920 | % | 40 |
| with high demand rate / according to SN 31920 | % | 75 |
| Failure rate (FIT value) / with low demand rate | | |
| according to SN 31920 | FIT | 100 |
| T1 value / for proof test interval or service life | | |
| according to IEC 61508 | а | 10 |
| Protection against electrical shock | | finger-safe |

Further information:

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

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

Global Industry Mall (Online ordering system)

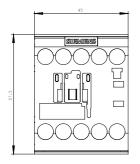
http://www.siemens.com/industrial-controls/mall

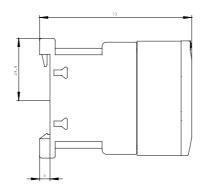
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

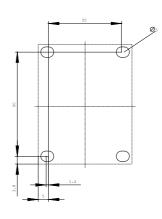
http://support.automation.siemens.com/WW/view/en/3RH2140-1AP00/all

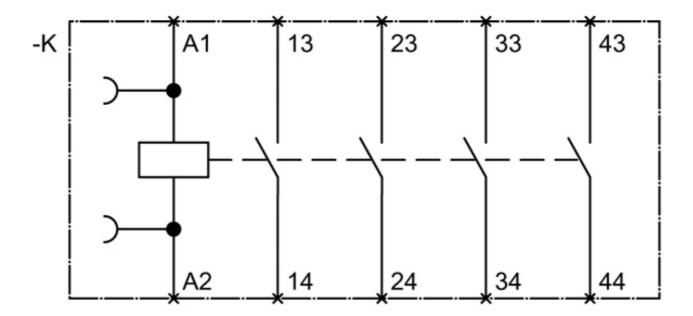
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2140-1AP00









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