



Contactor relay latched, 4-pole 2 NO + 2 NC Size S00 110 V DC !!! Phased-out product !!! Successor is SIRIUS 3RH2 Preferred successor type is >>3RH2422-1BF40<<

| | |
|---|-----------------------------|
| product brand name | SIRIUS |
| product designation | Auxiliary contactor |
| General technical data | |
| size of contactor | S00 |
| product extension auxiliary switch | Yes |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| degree of pollution | 3 |
| surge voltage resistance rated value | 6 kV |
| protection class IP on the front | IP20 |
| shock resistance | 10 g / 5 ms and 5 g / 10 ms |
| mechanical service life (operating cycles) | |
| • of contactor typical | 5 000 000 |
| • of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 |
| • of the contactor with added auxiliary switch block typical | 5 000 000 |
| reference code according to IEC 81346-2 | K |
| Substance Prohibition (day/month/year) | 07/01/2006 |
| Net Weight | 0.505 kg |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| • during operation | -25 ... +60 °C |
| • during storage | -55 ... +80 °C |
| • during transport | -55 ... +80 °C |
| Control circuit/ Control | |
| type of voltage of the control supply voltage | DC |
| control supply voltage at DC rated value | 110 V |
| operating range factor control supply voltage rated value of magnet coil at DC | |
| • initial value | 0.8 |
| • full-scale value | 1.1 |
| closing power of magnet coil at DC | 3.2 W |
| holding power of magnet coil at DC | 3.2 W |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 2 |
| • instantaneous contact | 2 |
| • delayed switching | 0 |
| • lagging switching | 0 |
| • make-before-break switching | 0 |

| | |
|---|--|
| number of NO contacts for auxiliary contacts | 2 |
| • instantaneous contact | 2 |
| • delayed switching | 0 |
| • leading contact | 0 |
| • make-before-break switching | 0 |
| number of CO contacts | |
| • for auxiliary contacts | 0 |
| • of auxiliary contacts instantaneous contact | 0 |
| identification number and letter for switching elements | 22 E |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| • at 230 V rated value | 6 A |
| • at 400 V rated value | 3 A |
| • at 500 V rated value | 2 A |
| • at 690 V rated value | 1 A |
| operational current at 1 current path at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 110 V rated value | 3 A |
| • at 220 V rated value | 1 A |
| operational current at 1 current path at DC-13 | |
| • at 24 V rated value | 10 A |
| • at 110 V rated value | 1 A |
| • at 220 V rated value | 0.27 A |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| Short-circuit protection | |
| design of the fuse link for short-circuit protection of the auxiliary switch required | 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 |
| fastening method | screw and snap-on mounting |
| height | 57.5 mm |
| width | 90 mm |
| depth | 72 mm |
| required spacing with side-by-side mounting at the side | 0 mm |
| Connections/ Terminals | |
| type of electrical connection for auxiliary and control circuit | screw-type terminals |
| type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| — solid | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ² |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • for AWG cables for auxiliary contacts | 2x (20 ... 16), 2x (18 ... 14), 1x 12 |
| Safety related data | |
| proportion of dangerous failures | |
| • with low demand rate according to SN 31920 | 40 % |
| • with high demand rate according to SN 31920 | 75 % |
| B10 value with high demand rate according to SN 31920 | 1 000 000; With 0.3 x I _e |
| IEC 61508 | |
| T1 value | |
| • for proof test interval or service life according to IEC 61508 | 20 a |
| Electrical Safety | |
| touch protection against electrical shock | finger-safe |
| Approvals Certificates | |
| Environment | General Product Approval |

[Environmental Conformations](#)



[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)

[Confirmation](#)



[Special Test Certificate](#)

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH1422-1BF40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1422-1BF40>

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

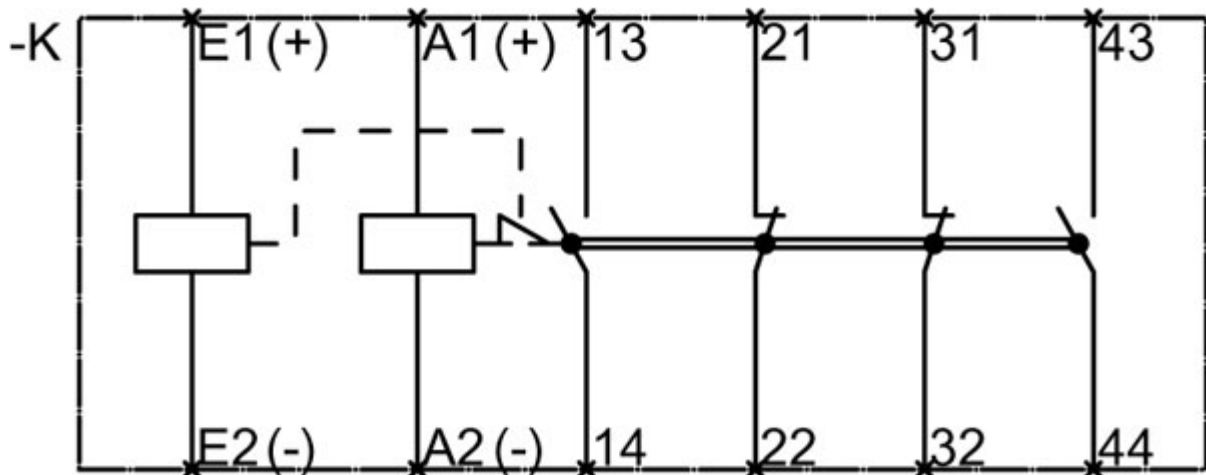
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1422-1BF40&lang=en

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1422-1BF40>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



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