

COUPL. CONT. REL., 3NO+1NC, 24 V DC, 0.7...1.25*US, SIZE S00, SCREW TERMINALS SUITABLE FOR PLC OUTPUTS



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|---|---|
| product brandname | SIRIUS |
| Product designation | Coupling relay for switching auxiliary circuits |
| General technical data | |
| Size of contactor | S00 |
| Product extension | No |
| <ul style="list-style-type: none"> Auxiliary switch | No |
| Insulation voltage | 690 V |
| <ul style="list-style-type: none"> with degree of pollution 3 rated value | 690 V |
| Degree of pollution | 3 |
| Surge voltage resistance rated value | 6 kV |
| Protection class IP | IP20 |
| <ul style="list-style-type: none"> on the front | IP20 |
| Shock resistance | |
| <ul style="list-style-type: none"> at rectangular impulse <ul style="list-style-type: none"> — at DC | 10g / 5 ms, 5g / 10 ms |
| <ul style="list-style-type: none"> with sine pulse <ul style="list-style-type: none"> — at DC | 15g / 5 ms, 8g / 10 ms |
| Mechanical service life (switching cycles) | 30 000 000 |
| <ul style="list-style-type: none"> of contactor typical | 30 000 000 |

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| Equipment marking | |
| <ul style="list-style-type: none"> • acc. to DIN EN 61346-2 | K |
| <ul style="list-style-type: none"> • acc. to DIN EN 81346-2 | K |
| Ambient conditions | |
| Installation altitude at height above sea level maximum | 2 000 m |
| Ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +60 °C |
| <ul style="list-style-type: none"> • during storage | -55 ... +80 °C |
| Main circuit | |
| No-load switching frequency | |
| <ul style="list-style-type: none"> • at AC | 10 000 1/h |
| <ul style="list-style-type: none"> • at DC | 10 000 1/h |
| Control circuit/ Control | |
| Type of voltage of the control supply voltage | DC |
| Control supply voltage at DC | |
| <ul style="list-style-type: none"> • rated value | 24 V |
| Operating range factor control supply voltage rated value of magnet coil at DC | 0.7 ... 1.25 |
| Closing power of magnet coil at DC | 2.8 W |
| Holding power of magnet coil at DC | 2.8 W |
| Closing delay | |
| <ul style="list-style-type: none"> • at DC | 30 ... 100 ms |
| Opening delay | |
| <ul style="list-style-type: none"> • at DC | 7 ... 13 ms |
| Arcing time | 10 ... 15 ms |
| Auxiliary circuit | |
| Number of NC contacts | |
| <ul style="list-style-type: none"> • for auxiliary contacts | 1 |
| <ul style="list-style-type: none"> — instantaneous contact | 1 |
| Number of NO contacts | |
| <ul style="list-style-type: none"> • for auxiliary contacts | 3 |
| <ul style="list-style-type: none"> — instantaneous contact | 3 |
| Identification number and letter for switching elements | 31 E |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 | |
| <ul style="list-style-type: none"> • at 230 V rated value | 10 A |
| <ul style="list-style-type: none"> • at 400 V rated value | 3 A |
| <ul style="list-style-type: none"> • at 500 V rated value | 2 A |
| <ul style="list-style-type: none"> • at 690 V rated value | 1 A |

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| Operating 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 |
| • at 440 V rated value | 0.3 A |
| • at 600 V rated value | 0.15 A |
| Operating current with 2 current paths in series at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 60 V rated value | 10 A |
| • at 110 V rated value | 4 A |
| • at 220 V rated value | 2 A |
| • at 440 V rated value | 1.3 A |
| • at 600 V rated value | 0.65 A |
| Operating current with 3 current paths in series at DC-12 | |
| • at 24 V rated value | 10 A |
| • at 60 V rated value | 10 A |
| • at 110 V rated value | 10 A |
| • at 220 V rated value | 3.6 A |
| • at 440 V rated value | 2.5 A |
| • at 600 V rated value | 1.8 A |
| Operating frequency at DC-12 maximum | 1 000 1/h |
| Operating 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 | 0.3 A |
| • at 440 V rated value | 0.14 A |
| • at 600 V rated value | 0.1 A |
| Operating current with 2 current paths in series at DC-13 | |
| • at 24 V rated value | 10 A |
| • at 60 V rated value | 3.5 A |
| • at 110 V rated value | 1.3 A |
| • at 220 V rated value | 0.9 A |
| • at 440 V rated value | 0.2 A |
| • at 600 V rated value | 0.1 A |
| Operating current with 3 current paths in series at DC-13 | |
| • at 24 V rated value | 10 A |
| • at 60 V rated value | 4.7 A |
| • at 110 V rated value | 3 A |

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| <ul style="list-style-type: none"> • at 220 V rated value • at 440 V rated value • at 600 V rated value | <p>1.2 A</p> <p>0.5 A</p> <p>0.26 A</p> |
| Operating frequency at DC-13 maximum | 1 000 1/h |
| Design of the miniature circuit breaker | C characteristic: 6 A; 0.4 kA |
| <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary circuit up to 230 V | |
| Contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

UL/CSA ratings

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| Contact rating of auxiliary contacts according to UL | A600 / Q600 |
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Short-circuit protection

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| Design of the fuse link | fuse gL/gG: 10 A |
| <ul style="list-style-type: none"> • for short-circuit protection of the auxiliary switch required | |

Installation/ mounting/ dimensions

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| 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 and snap-on mounting onto 35 mm standard mounting rail |
| Height | 57.5 mm |
| Width | 45 mm |
| Depth | 73 mm |
| Required spacing | 6 mm |
| <ul style="list-style-type: none"> • for grounded parts <ul style="list-style-type: none"> — at the side | |
| <ul style="list-style-type: none"> • for live parts <ul style="list-style-type: none"> — at the side | |
| <ul style="list-style-type: none"> • for live parts <ul style="list-style-type: none"> — at the side | |

Connections/Terminals

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| Type of electrical connection | screw-type terminals |
| <ul style="list-style-type: none"> • for auxiliary and control current circuit | |
| Type of connectable conductor cross-sections | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ² 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 2x 12 |
| <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 | |
| <ul style="list-style-type: none"> • at AWG conductors for auxiliary contacts | |
| <ul style="list-style-type: none"> • at AWG conductors for auxiliary contacts | |





Safety related data





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| B10 value | 1 000 000; With 0.3 x I _e |
| <ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 | |
| Proportion of dangerous failures | 40 % 73 % |
| <ul style="list-style-type: none"> • with low demand rate acc. to SN 31920 | |
| <ul style="list-style-type: none"> • with high demand rate acc. to SN 31920 | |


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| Failure rate [FIT] • with low demand rate acc. to SN 31920 | 100 FIT |
| Product function • positively driven operation acc. to IEC 60947-5-1 | Yes |
| T1 value for proof test interval or service life acc. to IEC 61508 | 20 y |

Certificates/approvals

| General Product Approval | | | | Functional Safety/Safety of Machinery | Declaration of Conformity |
|--|--|---|---|--|---|
|  CCC |  CSA |  UL |  | Baumusterbescheinigung |  EG-Konf. |

| Test Certificates | Shipping Approval | | | | |
|---|--|--|---|--|---|
| Typprüfbescheinigung/Werkszeugnis | spezielle Prüfbescheinigung n |  ABS |  BUREAU VERITAS |  DNV |  GL |

| Shipping Approval | | | | other | |
|--|--|---|---|-----------------------------------|-------------------------------|
|  LRS |  PRS |  RINA |  RMRS | Umweltbestätigung | Bestätigungen |

| other |
|--|
|  VDE |

Further information

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

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

Industry Mall (Online ordering system)

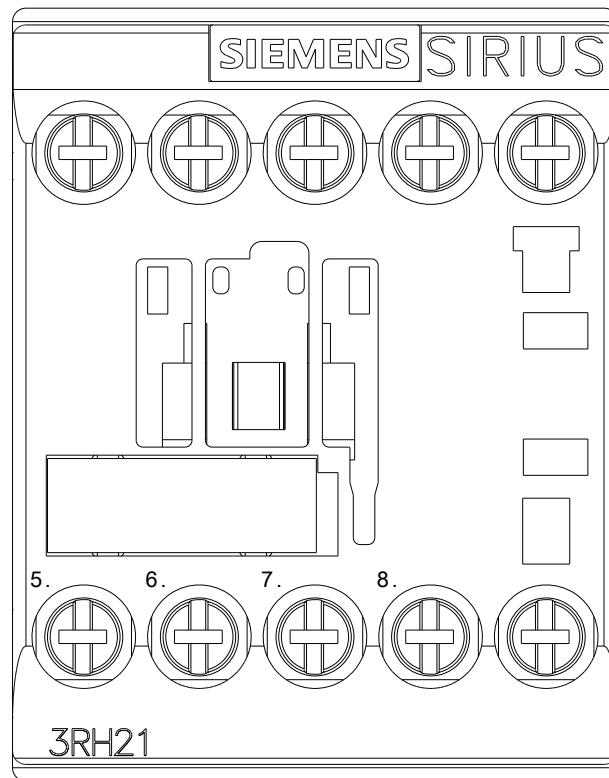
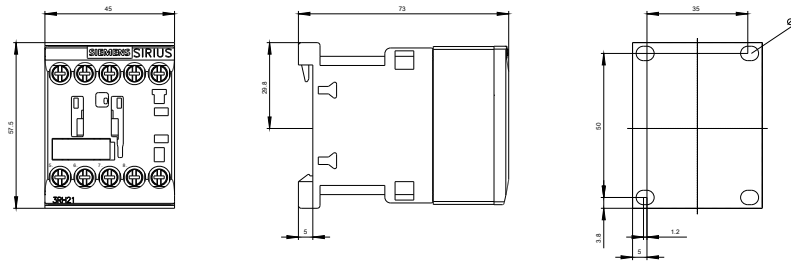
<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2131-1HB40>

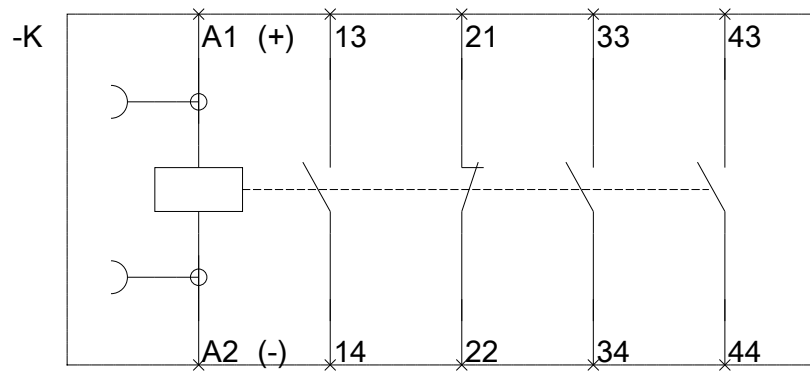
Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2131-1HB40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH2131-1HB40>





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