



first lateral auxiliary switch 2 NC contacts, spring-type terminal, for contactors 3RT1

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| product brand name | SIRIUS |
| product category | Auxiliary switch |
| product designation | auxiliary switch |
| design of the product | first laterally mountable |
| product type designation | 3RH19 |
| suitability for use | for 3RT10, 3RT12, 3RT145, 3RT146, 3RT147 |
| General technical data | |
| insulation voltage with degree of pollution 3 at AC rated value | 500 V |
| surge voltage resistance rated value | 6 kV |
| protection class IP on the front | IP20 |
| mechanical service life (operating cycles) typical | 10 000 000 |
| electrical endurance (operating cycles) at AC-15 at 230 V typical | 200 000 |
| Substance Prohibitance (Date) | 07/01/2006 |
| Weight | 0.053 kg |
| number of NC contacts for auxiliary contacts | |
| • instantaneous contact | 2 |
| number of NO contacts for auxiliary contacts | |
| • instantaneous contact | 0 |
| number of CO contacts of auxiliary contacts instantaneous contact | 0 |
| operational current of auxiliary contacts at AC-12 | |
| • at 24 V | 10 A |
| • at 230 V | 10 A |
| operational current of auxiliary contacts at AC-14 | |
| • at 125 V | 6 A |
| • at 250 V | 6 A |
| operational current of auxiliary contacts at AC-12 maximum | 10 A |
| operational current of auxiliary contacts at AC-15 | |
| • at 24 V | 6 A |
| • at 230 V | 6 A |
| • at 400 V | 3 A |
| operational current of auxiliary contacts at DC-12 | |
| • at 24 V | 10 A |
| • at 110 V | 3 A |
| • at 220 V | 1 A |
| operational 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 |

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|---|---|
| <ul style="list-style-type: none"> • at 440 V rated value | 1.3 A |
| operational current with 3 current paths in series at DC-12 | |
| <ul style="list-style-type: none"> • at 24 V rated value | 10 A |
| <ul style="list-style-type: none"> • at 60 V rated value | 10 A |
| <ul style="list-style-type: none"> • at 110 V rated value | 10 A |
| <ul style="list-style-type: none"> • at 220 V rated value | 3.6 A |
| <ul style="list-style-type: none"> • at 440 V rated value | 2.5 A |
| operational current with 2 current paths in series at DC-13 | |
| <ul style="list-style-type: none"> • at 24 V rated value | 10 A |
| <ul style="list-style-type: none"> • at 60 V rated value | 3.5 A |
| <ul style="list-style-type: none"> • at 110 V rated value | 1.3 A |
| <ul style="list-style-type: none"> • at 220 V rated value | 0.9 A |
| <ul style="list-style-type: none"> • at 440 V rated value | 0.2 A |
| operational current with 3 current paths in series at DC-13 | |
| <ul style="list-style-type: none"> • at 24 V rated value | 10 A |
| <ul style="list-style-type: none"> • at 60 V rated value | 4.7 A |
| <ul style="list-style-type: none"> • at 110 V rated value | 3 A |
| <ul style="list-style-type: none"> • at 220 V rated value | 1.2 A |
| <ul style="list-style-type: none"> • at 440 V rated value | 0.5 A |
| operational current of auxiliary contacts at DC-13 | |
| <ul style="list-style-type: none"> • at 24 V | 6 A |
| <ul style="list-style-type: none"> • at 48 V | 2 A |
| <ul style="list-style-type: none"> • at 60 V | 2 A |
| <ul style="list-style-type: none"> • at 110 V | 1 A |
| <ul style="list-style-type: none"> • at 125 V | 0.9 A |
| <ul style="list-style-type: none"> • at 220 V | 0.3 A |
| <ul style="list-style-type: none"> • at 250 V | 0.3 A |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA |
| contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |
| Ambient conditions | |
| ambient temperature | |
| <ul style="list-style-type: none"> • during operation | -25 ... +60 °C |
| <ul style="list-style-type: none"> • during storage | -55 ... +80 °C |
| Safety related data | |
| product function | |
| <ul style="list-style-type: none"> • mirror contact according to IEC 60947-4-1 | Yes; with 3RT1 |
| <ul style="list-style-type: none"> • positively driven operation according to IEC 60947-5-1 | No |
| Short-circuit protection | |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA |
| design of the fuse link for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| fastening method | snap-on mounting |
| height | 72.5 mm |
| width | 10 mm |
| depth | 71 mm |
| Connections/ Terminals | |
| type of electrical connection for auxiliary and control circuit | spring-loaded terminals |
| connectable conductor cross-section for auxiliary contacts | |
| <ul style="list-style-type: none"> • solid or stranded | 0.5 ... 2.5 mm² |
| <ul style="list-style-type: none"> • finely stranded with core end processing | 0.5 ... 2.5 mm² |
| <ul style="list-style-type: none"> • finely stranded without core end processing | 0.5 ... 2.5 mm² |
| type of connectable conductor cross-sections | |
| <ul style="list-style-type: none"> • for auxiliary contacts <ul style="list-style-type: none"> — solid or stranded | 2x (0.5 ... 2.5 mm²) |
| <ul style="list-style-type: none"> — finely stranded with core end processing | 2x (0.5 ... 1.5 mm²) |
| <ul style="list-style-type: none"> — finely stranded without core end processing | 2x (0.5 ... 2.5 mm²) |
| <ul style="list-style-type: none"> • for AWG cables for auxiliary contacts | 2x (20 ... 14) |
| AWG number as coded connectable conductor cross section for auxiliary contacts | 20 ... 14 |

Approvals Certificates

General Product Approval



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Further information

Information on the packaging

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

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=3RH1921-2EA02>

Cax online generator

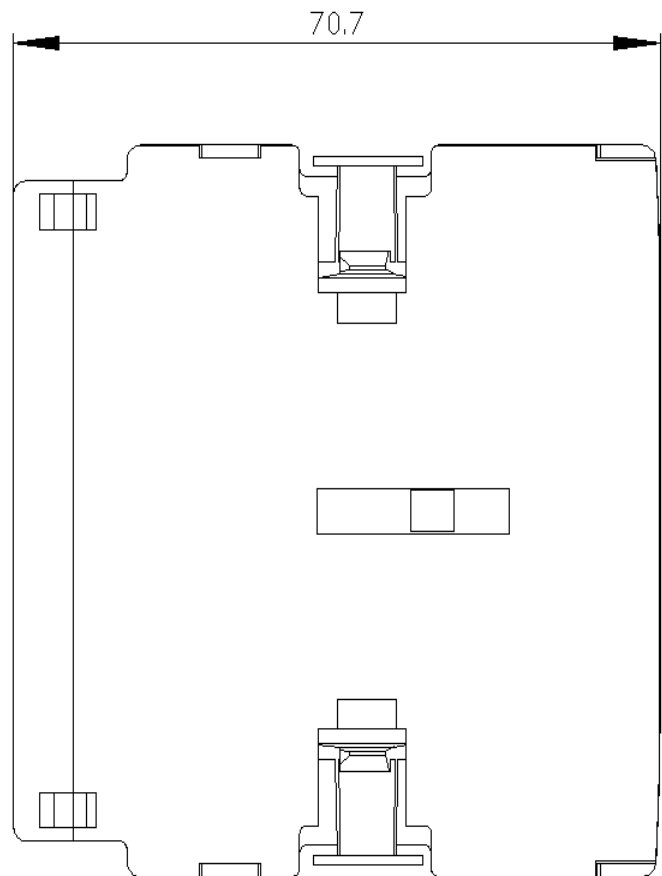
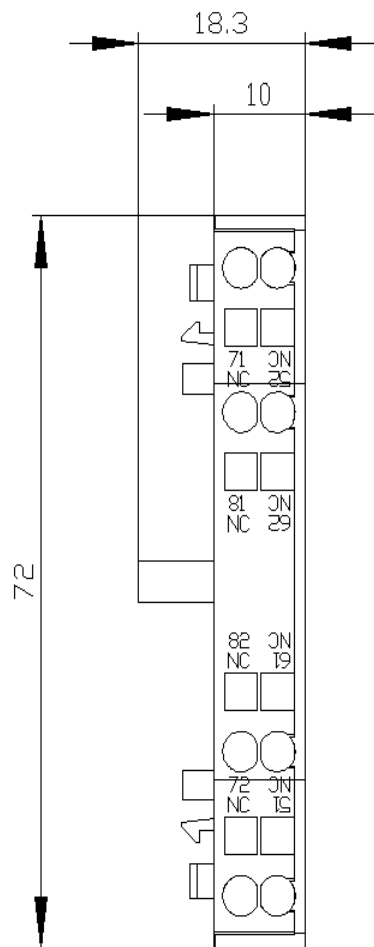
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-2EA02>

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

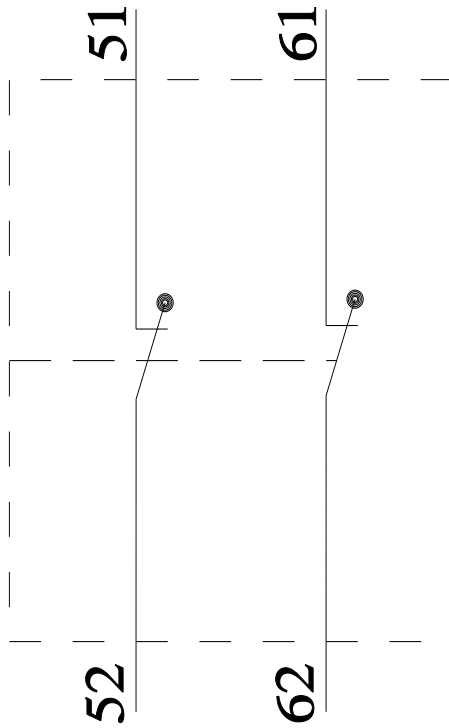
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Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

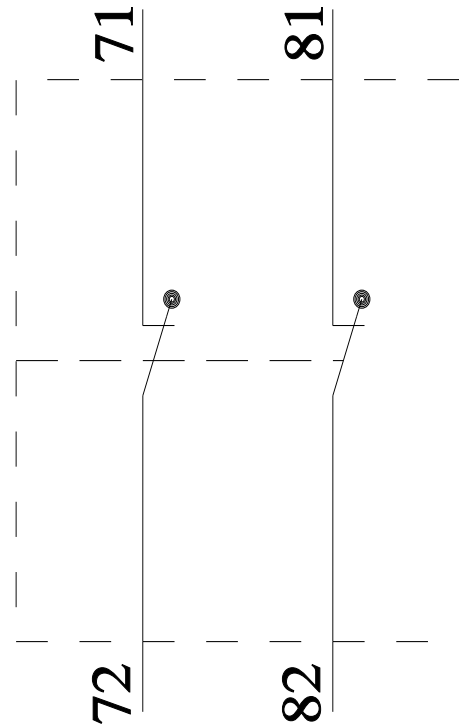
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