

AUXILIARY SWITCH BLOCK, 53E, 1NO+3NC, DIN EN50011, SCREW CONNECTION, FOR CONTACTOR RELAYS, 4-POLE



Figure similar

| General technical data  |  |
|---|--|
| product brandname   | SIRIUS   |
| Suitability for use   | Contactor relay and power contactor  |
| Protection class IP on the front                                  | IP20   |
| Ambient temperature   |  |
| • during storage  | -55 ... +80 °C   |
| • during operation  | -25 ... +60 °C   |
| Mechanical service life (switching cycles) typical                | 10 000 000   |
| Electrical endurance (switching cycles) at AC-15 at 230 V typical | 200 000  |
| Contact reliability   | one incorrect switching operation of 100 million switching operations (17 V, 5 mA) |
| Contact reliability of auxiliary contacts                         | 1 faulty switching per 100 million (17 V, 1 mA)                                    |
| Insulation voltage with degree of pollution 3 rated value         | 690 V  |
| Surge voltage resistance rated value                              | 6 kV   |
| Auxiliary circuit   |  |

|   |        |
|---|--------|
| <b>Number of NC contacts for auxiliary contacts</b>     |        |
| • instantaneous contact                                 | 3      |
| <b>Number of NO contacts for auxiliary contacts</b>     |        |
| • instantaneous contact                                 | 1      |
| <b>Operating current of auxiliary contacts at AC-12</b> |        |
| • at 24 V   | 10 A   |
| • at 230 V  | 10 A   |
| • maximum   | 10 A   |
| <b>Operating current</b>                                |        |
| • of auxiliary contacts                                 |        |
| — at AC-14  |        |
| — at 125 V  | 6 A    |
| — at 250 V  | 6 A    |
| — at AC-15  |        |
| — at 24 V   | 6 A    |
| — at 230 V  | 6 A    |
| — at 400 V  | 3 A    |
| • at AC-15 at 690 V rated value                         | 1 A    |
| <b>Operating current</b>                                |        |
| • of auxiliary contacts at DC-12                        |        |
| — at 24 V   | 10 A   |
| — at 110 V  | 3 A    |
| — at 220 V  | 1 A    |
| • 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 |
| • 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  |
| <b>Operating current</b>                                |        |
| • of auxiliary contacts at DC-13                        |        |
| — at 24 V   | 6 A    |
| — at 60 V   | 2 A    |

|   |        |
|---|--------|
| — at 110 V                                | 1 A    |
| — at 220 V                                | 0.3 A  |
| • 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  |
| • 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    |
| — at 220 V rated value                    | 1.2 A  |
| — at 440 V rated value                    | 0.5 A  |
| — at 600 V rated value                    | 0.26 A |

#### Installation/ mounting/ dimensions

|                      |                  |
|----------------------|------------------|
| <b>Mounting type</b> | snap-on mounting |
| <b>Width</b>         | 36.5 mm          |
| <b>Height</b>        | 37.5 mm          |
| <b>Depth</b>         | 41.5 mm          |

#### Connections/Terminals

|  |   |
|--|---|
| <b>Type of electrical connection for auxiliary and control current circuit</b> | screw-type terminals  |
| <b>Type of connectable conductor cross-sections</b>                            |   |
| • for auxiliary contacts   |   |
| — finely stranded  |   |
| — with core end processing   | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| • at AWG conductors for auxiliary contacts                                     | 2x (20 ... 16), 2x (18 ... 14)  |

#### Safety related data

|   |           |
|---|-----------|
| <b>Product function Mirror contact acc. to IEC 60947-4-1</b>              | Yes       |
| • Note  | with 3RT1 |
| <b>Product function positively driven operation acc. to IEC 60947-5-1</b> | Yes       |
| • Note  | with 3RH1 |

#### Certificates/approvals

|                          |                                       |                           |
|--------------------------|---------------------------------------|---------------------------|
| General Product Approval | Functional Safety/Safety of Machinery | Declaration of Conformity |
|--------------------------|---------------------------------------|---------------------------|



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| Test Certificates | Shipping Approval |
|-------------------|-------------------|

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|                   |       |
|-------------------|-------|
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|-------------------|-------|



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#### 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=3RH1911-1GA13>

##### Cax online generator

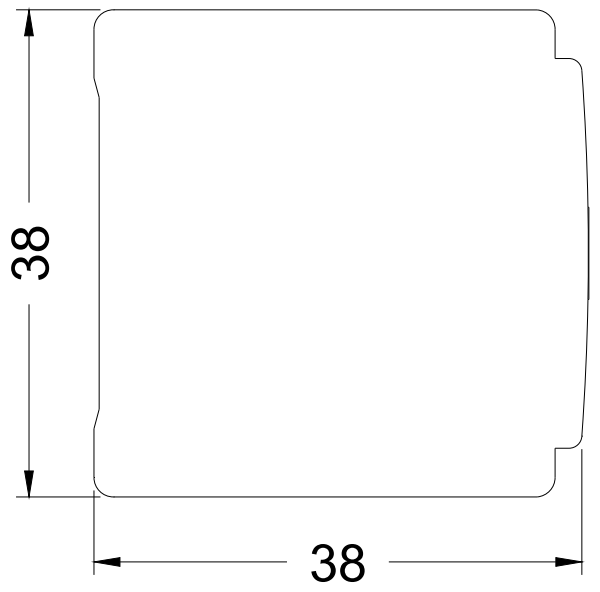
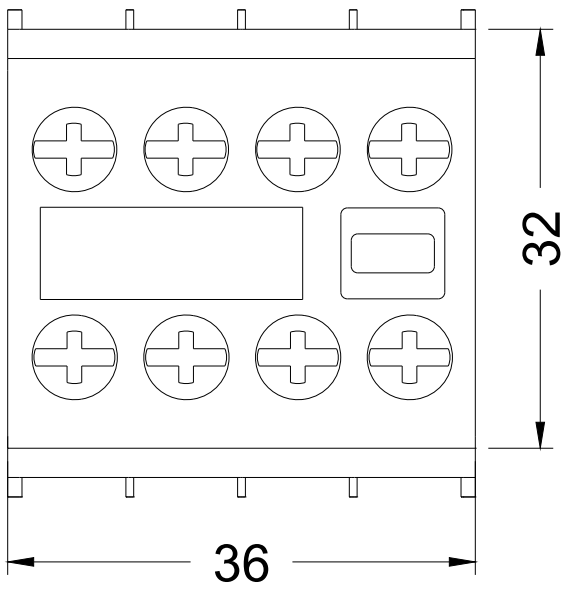
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1911-1GA13>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1911-1GA13>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1911-1GA13&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1911-1GA13&lang=en)



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