

AUXILIARY SWITCH BLOCK, 31 (3NO+1NC), DIN EN50012, 4-POLE, SCREW CONNECTION, FOR MOTOR CONTACTORS, SIZE S0...S3



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                                 | 1      |
| <b>Number of NO contacts for auxiliary contacts</b>     |        |
| • instantaneous contact                                 | 3      |
| <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>                                |        |
| • 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>         | 44 mm            |
| <b>Height</b>        | 38 mm            |
| <b>Depth</b>         | 51 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       |
| • <b>Note</b>                                                             | with 3RT1 |
| <b>Product function positively driven operation acc. to IEC 60947-5-1</b> | No        |

#### Certificates/approvals

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



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| Test Certificates | Shipping Approval | other |
|-------------------|-------------------|-------|
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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=3RH1921-1HA31>

**Cax online generator**

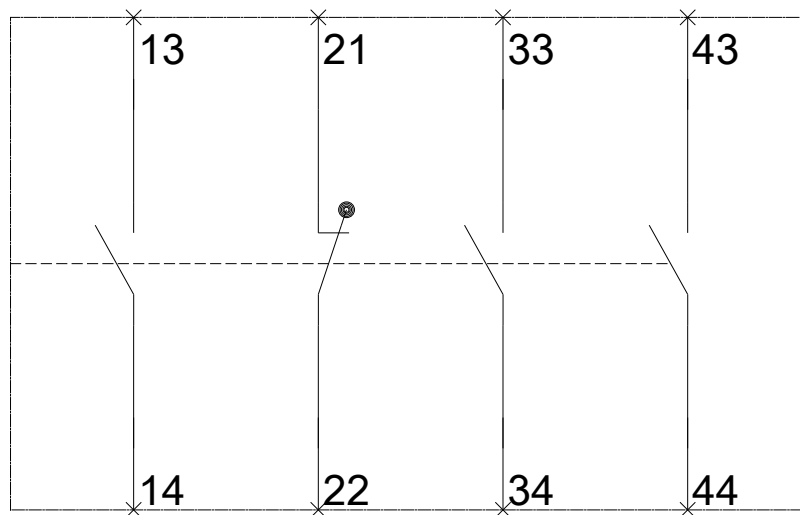
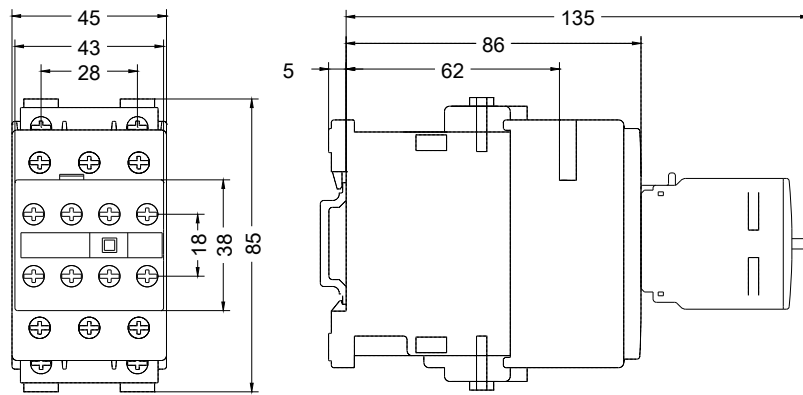
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-1HA31>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1921-1HA31>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1921-1HA31&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1921-1HA31&lang=en)



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