

contactor relay, 31E, EN 50011, 3 NO + 1 NC, screw terminal AC  
operation 110 V AC 50 Hz/132 V AC 60 Hz



Figure similar

|                                                                                                                                |                     |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Product designation                                                                                                            | Auxiliary contactor |
| Product type designation                                                                                                       | 3TH2                |
| Size of contactor                                                                                                              | 0                   |
| Protection class IP on the front                                                                                               | IP20                |
| Reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750                                               | K                   |
| Reference code acc. to DIN EN 81346-2                                                                                          | K                   |
| Reference code acc. to DIN EN 61346-2                                                                                          | K                   |
| Ambient temperature during operation                                                                                           | -25 ... +55 °C      |
| Type of voltage of the control supply voltage                                                                                  | AC                  |
| Control supply voltage at AC <ul style="list-style-type: none"><li>at 50 Hz rated value</li><li>at 60 Hz rated value</li></ul> | 110 V<br>132 V      |
| Control supply voltage frequency <ul style="list-style-type: none"><li>1 rated value</li><li>2 rated value</li></ul>           | 50 Hz<br>60 Hz      |
| Number of NC contacts for auxiliary contacts <ul style="list-style-type: none"><li>delayed switching</li></ul>                 | 1<br>0              |

|                                                                           |                                                                                        |
|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| • lagging switching                                                       | 0                                                                                      |
| • make-before-break switching                                             | 0                                                                                      |
| <b>Number of NO contacts for auxiliary contacts</b>                       | 3                                                                                      |
| • delayed switching                                                       | 0                                                                                      |
| • leading contact                                                         | 0                                                                                      |
| • make-before-break switching                                             | 0                                                                                      |
| Number of CO contacts for auxiliary contacts                              | 0                                                                                      |
| <b>Identification number and letter for switching elements</b>            | 31 E                                                                                   |
| <b>Operating current at AC-15</b>                                         |                                                                                        |
| • at 230 V rated value                                                    | 4 A                                                                                    |
| • at 400 V rated value                                                    | 3 A                                                                                    |
| <b>Mounting type</b>                                                      | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <b>Height</b>                                                             | 48 mm                                                                                  |
| <b>Width</b>                                                              | 45 mm                                                                                  |
| <b>Depth</b>                                                              | 68 mm                                                                                  |
| Type of electrical connection for auxiliary and control current circuit   | screw-type terminals                                                                   |
| B10 value with high demand rate acc. to SN 31920                          | 400 000; With 0.3 x I <sub>e</sub>                                                     |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b> | 20 y                                                                                   |
| <b>Protection against electrical shock</b>                                | finger-safe                                                                            |

#### 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=3TH2031-0AF0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TH2031-0AF0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3TH2031-0AF0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3TH2031-0AF0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TH2031-0AF0&lang=en)

**Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3TH2031-0AF0/char>

**Further characteristics (e.g. electrical endurance, switching frequency)**

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TH2031-0AF0&objecttype=14&gridview=view1>

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