

CONTACTOR RELAY 31E EN 50 011 3NO+1NC, SCREW  
TERMINALS AC OPERATION AC 50HZ 24V/60HZ 29V



Figure similar

| General technical data:                                                             |                |
|-------------------------------------------------------------------------------------|----------------|
| Size of contactor                                                                   | 0              |
| Ambient temperature during operation                                                | -25 ... +55 °C |
| Protection class IP on the front                                                    | IP20           |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | K              |
| Equipment marking acc. to DIN EN 61346-2                                            | K              |
| Equipment marking acc. to DIN EN 81346-2                                            | K              |
| Control circuit/ Control:                                                           |                |
| Type of voltage of the control supply voltage                                       | AC             |
| Control supply voltage frequency                                                    |                |
| • 1 rated value                                                                     | 50 Hz          |
| • 2 rated value                                                                     | 60 Hz          |
| Control supply voltage                                                              |                |
| • at AC                                                                             |                |
| — at 50 Hz                                                                          |                |
| — rated value                                                                       | 24 V           |

— at 60 Hz  
— rated value

29 V

#### Auxiliary circuit:

|                                                                |      |
|----------------------------------------------------------------|------|
| <b>Operating current at AC-15</b>                              |      |
| • at 230 V rated value                                         | 4 A  |
| • at 400 V rated value                                         | 3 A  |
| <b>Identification number and letter for switching elements</b> | 31 E |
| <b>Number of NC contacts for auxiliary contacts</b>            | 1    |
| • lagging switching                                            | 0    |
| • delayed 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    |
| <b>Number of CO contacts for auxiliary contacts</b>            | 0    |

#### Connections/ Terminals:

|                                                                                |                      |
|--------------------------------------------------------------------------------|----------------------|
| <b>Type of electrical connection for auxiliary and control current circuit</b> | screw-type terminals |
|--------------------------------------------------------------------------------|----------------------|

#### Mechanical data:

|                      |                                                                                        |
|----------------------|----------------------------------------------------------------------------------------|
| <b>Mounting type</b> | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <b>Width</b>         | 45 mm                                                                                  |
| <b>Height</b>        | 48 mm                                                                                  |
| <b>Depth</b>         | 68 mm                                                                                  |

#### 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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|-------|
|-------|

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#### Safety related data:

|                                                                           |                           |
|---------------------------------------------------------------------------|---------------------------|
| <b>Protection against electrical shock</b>                                | finger-safe               |
| B10 value with high demand rate acc. to SN 31920                          | 400 000                   |
| • Note                                                                    | 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                      |

#### 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=3TH2031-0AB0>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TH2031-0AB0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3TH2031-0AB0>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3TH2031-0AB0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TH2031-0AB0&lang=en)

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