



CONTACTOR RELAY 31E EN 50 011 3NO+1NC,  
SCREW TERMINALS AC OPERATION AC 50/60HZ 42V

| General details:                                                                |    |             |
|---------------------------------------------------------------------------------|----|-------------|
| Size of the contactor                                                           |    | 0           |
| Ambient temperature                                                             |    |             |
| • during operating                                                              | °C | -25 ... +55 |
| Protection class IP / on the front                                              |    | IP20        |
| Reference code                                                                  |    |             |
| • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 |    | K           |
| • according to DIN EN 61346-2                                                   |    | K           |
| • according to DIN EN 81346-2                                                   |    | K           |
| Control circuit:                                                                |    |             |
| Voltage type / of control feed voltage                                          |    | AC          |
| Control supply voltage frequency                                                |    |             |
| • 1                                                                             | Hz | 50          |
| • 2                                                                             | Hz | 60          |
| Control supply voltage                                                          |    |             |
| • at 50 Hz / at AC / rated value                                                | V  | 42          |
| • at 60 Hz / at AC / rated value                                                | V  | 42          |
| Auxiliary circuit:                                                              |    |             |

|                                                                                                                                 |   |      |
|---------------------------------------------------------------------------------------------------------------------------------|---|------|
| <b>Operating current / at AC-15</b><br>• at 230 V / rated value<br>• at 400 V / rated value                                     | A | 4    |
|                                                                                                                                 | A | 3    |
| <b>Identification number and letter for switching elements</b>                                                                  |   | 31 E |
| <b>Number of NC contacts / for auxiliary contacts</b><br>• lagging switching<br>• delayed switching<br>• asynchronous switching |   | 1    |
|                                                                                                                                 |   | 0    |
|                                                                                                                                 |   | 0    |
|                                                                                                                                 |   | 0    |
| <b>Number of NO contacts / for auxiliary contacts</b><br>• leading switching<br>• delayed switching<br>• asynchronous switching |   | 3    |
|                                                                                                                                 |   | 0    |
|                                                                                                                                 |   | 0    |
|                                                                                                                                 |   | 0    |
| <b>Number of changeover contacts / for auxiliary contacts</b>                                                                   |   | 0    |

#### Connection type:

**Design of the electrical connection / for auxiliary and control current circuit**

screw-type terminals

#### Mechanical design:

**Mounting type**

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

**Width**

mm

45

**Height**

mm

48

**Depth**

mm

68

#### Certificates/approvals:

**General Product Approval**

**Functional Safety /  
Safety of  
Machinery**

**Declaration of  
Conformity**



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

**Test Certificates**

**Shipping Approval**

[other](#)

[Special Test  
Certificate](#)

[Type Test  
Certificates/Test  
Report](#)



LRS



RMRS

**other**

[Declaration of  
Conformity](#)

[other](#)

[Environmental  
Confirmations](#)

#### Safety:

**Protection against electrical shock**

finger-safe

**B10 value / with high demand rate**

- according to SN 31920

- note

**T1 value / for proof test interval or service life / according to IEC 61508**

|   |               |
|---|---------------|
|   | 400,000       |
|   | With 0.3 x Ie |
| a | 20            |

#### Further information:

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<http://www.siemens.com/industrial-controls/mall>

**Cax online generator**

<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3TH2031-0AD2/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3TH2031-0AD2](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3TH2031-0AD2)

**last change:**

Jun 16, 2014