



CONTACTOR RELAY 31E EN 50 011 3NO+1NC,  
SCREW TERMINALS DIODE INCORPORATED DC  
OPERATION,  
COIL 1.2W DC 24V

| 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                                          |    | DC          |
| Control supply voltage                                                          |    |             |
| • for DC / rated value                                                          | V  | 24          |
| Auxiliary circuit:                                                              |    |             |
| Operating current / at AC-15                                                    |    |             |
| • at 230 V / rated value                                                        | A  | 4           |
| • at 400 V / rated value                                                        | A  | 3           |
| Identification number and letter for switching elements                         |    | 31 E        |

|                                                               |  |   |
|---------------------------------------------------------------|--|---|
| <b>Number of NC contacts / for auxiliary contacts</b>         |  | 1 |
| • lagging switching                                           |  | 0 |
| • delayed switching                                           |  | 0 |
| • asynchronous switching                                      |  | 0 |
| <b>Number of NO contacts / for auxiliary contacts</b>         |  | 3 |
| • leading switching                                           |  | 0 |
| • delayed switching                                           |  | 0 |
| • asynchronous switching                                      |  | 0 |
| <b>Number of changeover contacts / for auxiliary contacts</b> |  | 0 |

#### Connection type:

|                                                                                        |  |                      |
|----------------------------------------------------------------------------------------|--|----------------------|
| <b>Design of the surge suppressor</b>                                                  |  | with diode           |
| <b>Design of the electrical connection / for auxiliary and control current circuit</b> |  | screw-type terminals |

#### Mechanical design:

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

#### Certificates/approvals:

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



[Type Examination](#)



#### Test Certificates

[other](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Shipping Approval



LRS



RMRS

[other](#)

[Declaration of Conformity](#)

[Environmental Confirmations](#)

#### Safety:

|                                            |  |               |
|--------------------------------------------|--|---------------|
| <b>Protection against electrical shock</b> |  | finger-safe   |
| <b>B10 value / with high demand rate</b>   |  | 400,000       |
| • according to SN 31920                    |  | With 0.3 x Ie |
| • note                                     |  |               |

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

a

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#### 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/3TH2031-0TB4/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3TH2031-0TB4](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3TH2031-0TB4)

**last change:**

Jun 16, 2014