



power relay, AC-3, 8.4 A, 4 kW / 400 V, 3-pole, 230 V AC, 45-450 Hz, auxiliary contacts: 1 NC, flat connector 6.3 x 0.8 mm

|                                                                        |                                                |
|------------------------------------------------------------------------|------------------------------------------------|
| consumed active power                                                  | 4 W                                            |
| reference code according to IEC 81346-2                                | K                                              |
| Substance Prohibitance (Date)                                          | 07/01/2006                                     |
| Weight                                                                 | 0.136 kg                                       |
| ambient temperature during operation                                   | -25 ... +55 °C                                 |
| number of poles                                                        | 4                                              |
| number of NO contacts for main contacts                                | 3                                              |
| number of NC contacts for main contacts                                | 0                                              |
| type of voltage                                                        | AC                                             |
| operational current                                                    |                                                |
| • at AC-1 at 400 V rated value                                         | 16 A                                           |
| • at AC-3 at 400 V rated value                                         | 8.4 A                                          |
| • at AC-3e at 400 V rated value                                        | 6.4 A                                          |
| operating power                                                        |                                                |
| • at AC-3 at 400 V rated value                                         | 4 kW                                           |
| • at AC-3e at 400 V rated value                                        | 3 W                                            |
| control supply voltage at AC                                           |                                                |
| • at 50 Hz rated value                                                 | 230 ... 230 V                                  |
| • at 60 Hz rated value                                                 | 230 ... 230 V                                  |
| supply voltage frequency for auxiliary and control circuit rated value | 45 ... 450 Hz                                  |
| number of NC contacts for auxiliary contacts                           | 1                                              |
| number of NO contacts for auxiliary contacts                           | 0                                              |
| number of CO contacts for auxiliary contacts                           | 0                                              |
| fastening method side-by-side mounting                                 | Yes                                            |
| fastening method                                                       | screw and snap-on mounting onto 35 mm DIN rail |
| height                                                                 | 62 mm                                          |
| width                                                                  | 36 mm                                          |
| depth                                                                  | 61 mm                                          |
| type of electrical connection                                          |                                                |
| • for main current circuit                                             | tab terminals                                  |
| • for auxiliary and control circuit                                    | tab terminals                                  |
| <b>Safety related data</b>                                             |                                                |
| product function suitable for safety function                          | Yes                                            |
| service life maximum                                                   | 20 a                                           |
| proportion of dangerous failures                                       |                                                |
| • with low demand rate according to SN 31920                           | 40 %                                           |
| • with high demand rate according to SN 31920                          | 73 %                                           |
| B10 value with high demand rate according to SN 31920                  | 400 000                                        |
| failure rate [FIT] with low demand rate according to SN 31920          | 100 1/s                                        |

|                                                         |        |
|---------------------------------------------------------|--------|
| ISO 13849                                               |        |
| device type according to ISO 13849-1                    | 3      |
| overdimensioning according to ISO 13849-2 necessary     | Yes    |
| IEC 61508                                               |        |
| safety device type according to IEC 61508-2             | Type A |
| Electrical Safety                                       |        |
| protection class IP on the front according to IEC 60529 | IP00   |
| Approvals Certificates                                  |        |
| General Product Approval                                |        |



[Confirmation](#)



| General Product Approval | Test Certificates                        | other                                              |                               |                              |                              |
|--------------------------|------------------------------------------|----------------------------------------------------|-------------------------------|------------------------------|------------------------------|
|                          | <a href="#">Special Test Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> | <a href="#">Miscellaneous</a> | <a href="#">Confirmation</a> | <a href="#">Confirmation</a> |

## Environment

[Environmental Confirmations](#)

## Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

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

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3TG1001-1AL2>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3TG1001-1AL2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3TG1001-1AL2>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3TG1001-1AL2&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3TG1001-1AL2&lang=en)

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3TG1001-1AL2/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3TG1001-1AL2&objecttype=14&gridview=view1>



