



power relay, AC-3, 8.4 A, 4 kW / 400 V, 3-pole, 24 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 (day/month/year)	07/01/2006
Net Weight	0.14 g
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 kW
control supply voltage at AC	
• at 50 Hz rated value	24 V
• at 60 Hz rated value	24 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	
• mirror contact according to IEC 60947-4-1	Yes
• 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 %
<b>B10 value with high demand rate according to SN 31920</b>	400 000
<b>failure rate [FIT] with low demand rate according to SN 31920</b>	100 1/s
<b>ISO 13849</b>	
<b>device type according to ISO 13849-1</b>	3
<b>overdimensioning according to ISO 13849-2 necessary</b>	Yes
<b>IEC 61508</b>	
<b>safety device type according to IEC 61508-2</b>	Type A
<b>Electrical Safety</b>	
<b>protection class IP on the front according to IEC 60529</b>	IP00

**Approvals Certificates**

<b>Environment</b>	<b>General Product Approval</b>
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[Environmental Confirmations](#)



<b>Test Certificates</b>	<b>other</b>
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[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

[Confirmation](#)

[Confirmation](#)

[Confirmation](#)



**other**

[Miscellaneous](#)

**Further information**

**Information on the packaging**

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

**Information for data generation and storage**

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

**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?mifb=3TG1001-1AC2>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3TG1001-1AC2>

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

[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mifb=3TG1001-1AC2&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mifb=3TG1001-1AC2&lang=en)

**Cax online generator**

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mifb=3TG1001-1AC2>

**Characteristic curves**

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP="HAUPT"></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)



