



tolerances according to DIN ISO 2768 m

| Magnetic properties                  | Conditions   | Min    | Typ | Max | Unit |
|--------------------------------------|--|--------|-----|-----|------|
| Pull-In excitation (Reference value) | Reed switch unmodified measured in coil-"define operation" | 30     |     | 35  | AT   |
| Test-Coil                            | Reed switch unmodified                                     | KMS-01 |     |     |      |

| Contact Data 85              | Conditions  | Min     | Typ | Max   | Unit |
|------------------------------|---|---------|-----|-------|------|
| Contact-No.                  |   | 85      |     |       |      |
| Contact-form                 |   | A       |     |       |      |
| Contact-material             |   | Rhodium |     |       |      |
| Contact rating               | Any DC combination of V & A not to exceed their individual max.'s |         |     | 100   | W    |
| Switching voltage            | DC or Peak AC   |         |     | 1.000 | V    |
| Switching current            | DC or Peak AC   |         |     | 1     | A    |
| Carry current                | DC or Peak AC 100% Duty Cycle                                     |         |     | 2,5   | A    |
| Pulsed carry current         | DC or Peak AC 5ms after coil excitation for 50ms max.             |         |     | 3     | A    |
| Contact resistance static    | Measured with 40% overdrive                                       |         |     | 150   | mOhm |
| Contact resistance dynamic   | Maximum value 1,5 ms after excitation                             |         |     | 200   | mOhm |
| Insulation resistance        | RH <45 %, 100 V test voltage                                      | 10      |     |       | GOhm |
| Breakdown voltage (30-40 AT) | according to IEC 255-5  | 2.500   |     |       | VDC  |
| Operate time incl. bounce    | measured with 40% overdrive                                       |         |     | 1,1   | ms   |
| Release time                 | measured with no coil excitation                                  |         |     | 0,1   | ms   |
| Capacitance                  | @ 10 kHz across open switch                                       |         | 0,5 |       | pF   |

| Contact dimensions | C | Conditions                     | Min | Typ  | Max | Unit |
|--------------------|---|--------------------------------|-----|------|-----|------|
| Overall length     |   | Tolerance according to drawing |     | 55,4 |     | mm   |
| Glass body length  |   | Tolerance according to drawing |     | 21   |     | mm   |

| Environmental data    | Conditions                  | Min | Typ | Max | Unit |
|-----------------------|-----------------------------|-----|-----|-----|------|
| Shock                 | 1/2 sine wave duration 11ms |     |     | 50  | g    |
| Vibration             | from 10 - 2000 Hz           |     |     | 20  | g    |
| Operating temperature |                             | -40 |     | 130 | °C   |
| Storage temperature   |                             | -55 |     | 130 | °C   |
| Soldering temperature | wave soldering max. 5 sec   |     |     | 260 | °C   |

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