**Characteristics**

**Main**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>TeSys</td>
</tr>
<tr>
<td>Product name</td>
<td>TeSys CAK</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Control relay</td>
</tr>
<tr>
<td>Device short name</td>
<td>CA2K</td>
</tr>
<tr>
<td>Contactor application</td>
<td>Control circuit</td>
</tr>
<tr>
<td>Utilisation category</td>
<td>DC-13</td>
</tr>
<tr>
<td></td>
<td>AC-15</td>
</tr>
<tr>
<td>Pole contact composition</td>
<td>3 NO + 1 NC</td>
</tr>
<tr>
<td>([U_e]) rated operational voltage</td>
<td>(\leq 690) V (\leq 400) Hz</td>
</tr>
<tr>
<td>Control circuit type</td>
<td>AC at 50/60 Hz</td>
</tr>
<tr>
<td>([U_c]) control circuit voltage</td>
<td>42 V AC 50/60 Hz</td>
</tr>
</tbody>
</table>

**Complementary**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Ith] conventional free air thermal current</td>
<td>10 A (at 50 °C)</td>
</tr>
<tr>
<td>Irms rated making capacity</td>
<td>110 A conforming to IEC 60947</td>
</tr>
<tr>
<td>Associated fuse rating</td>
<td>10 A gG conforming to IEC 60947</td>
</tr>
<tr>
<td></td>
<td>10 A gG conforming to VDE 0660</td>
</tr>
<tr>
<td>[U_i] rated insulation voltage</td>
<td>690 V conforming to IEC 60947</td>
</tr>
<tr>
<td></td>
<td>750 V conforming to VDE 0110 group C</td>
</tr>
<tr>
<td></td>
<td>690 V conforming to BS 5424</td>
</tr>
<tr>
<td></td>
<td>600 V conforming to CSA C22.2 No 14</td>
</tr>
<tr>
<td>Mounting support</td>
<td>Rail</td>
</tr>
<tr>
<td></td>
<td>Plate</td>
</tr>
<tr>
<td>Connections - terminals</td>
<td>Screw clamp terminals 1 cable(s) 1.5...4 mm² solid</td>
</tr>
<tr>
<td></td>
<td>Screw clamp terminals 2 cable(s) 1.5...4 mm² solid</td>
</tr>
<tr>
<td></td>
<td>Screw clamp terminals 1 cable(s) 0.75...4 mm² flexible with cable end</td>
</tr>
<tr>
<td></td>
<td>Screw clamp terminals 2 cable(s) 0.75...4 mm² flexible without cable end</td>
</tr>
<tr>
<td></td>
<td>Screw clamp terminals 1 cable(s) 0.34...1.5 mm² flexible with cable end</td>
</tr>
<tr>
<td></td>
<td>Screw clamp terminals 2 cable(s) 0.34...1.5 mm² flexible without cable end</td>
</tr>
<tr>
<td>Tightening torque</td>
<td>1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm</td>
</tr>
</tbody>
</table>

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
Control circuit voltage limits
- Drop-out: 0.2...0.75 Uc (at <50 °C)
- Operational: 0.8...1.15 Uc (at <50 °C)

Operating time
- 10...20 ms coil de-energisation and NO opening
- 10...20 ms coil energisation and NO closing
- 15...25 ms coil de-energisation and NC closing
- 5...15 ms coil energisation and NC opening

Mechanical durability
- 10 Mcycles

Maximum operating rate
- 10000 cyc/h

Immunity to microbreaks
- 2 ms

Inrush power in VA
- 30 VA (at 20 °C)

Hold-in power consumption in VA
- 4.5 VA (at 20 °C)

Heat dissipation
- 1.3 W

Minimum switching voltage
- 17 V

Minimum switching current
- 5 mA

Non overlap distance
- 0.5 mm

Insulation resistance
- > 10 MOhm

Height
- 58 mm

Width
- 45 mm

Depth
- 57 mm

Net weight
- 0.18 kg

Environment

Standards
- BS 5424
- IEC 60947
- NF C 63-140
- VDE 0660

Product certifications
- UL
- CSA

IP degree of protection
- IP2x

Protective treatment
- TC conforming to IEC 60068

Ambient air temperature for operation
- -25...50 °C

Ambient air temperature for storage
- -50...80 °C

Operating altitude
- 2000 m without

Flame retardance
- V1 conforming to UL 94
- Requirement 2 conforming to NF F 16-101
- Requirement 2 conforming to NF F 16-102

Mechanical robustness
- Vibrations contactor open: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6
- Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6
- Shocks contactor open: 10 Gn for 11 ms conforming to IEC 60068-2-27
- Shocks contactor closed: 15 Gn for 11 ms conforming to IEC 60068-2-27

Offer Sustainability

Sustainable offer status
- Green Premium product

REAcH Regulation
- REAcH Declaration

EU RoHS Directive
- Compliant
- EU RoHS Declaration

Mercury free
- Yes

RoHS exemption information
- Yes

China RoHS Regulation
- China RoHS declaration
- Product out of China RoHS scope. Substance declaration for your information

Environmental Disclosure
- Product Environmental Profile

Circularity Profile
- End of Life Information

WEEE
- The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
<table>
<thead>
<tr>
<th>Contractual warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warranty</td>
</tr>
</tbody>
</table>