## Characteristics

**LC1K0910M7**  
TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NO aux. - 220...230 V AC coil

**Price**: 280.500.00 IDR

LC1K0910M7 has not been replaced. Please contact your customer care centre for more information.

### Main

<table>
<thead>
<tr>
<th>Range</th>
<th>TeSys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product or component type</td>
<td>Contactor</td>
</tr>
<tr>
<td>Product name</td>
<td>TeSys K</td>
</tr>
<tr>
<td>Device application</td>
<td>Control</td>
</tr>
</tbody>
</table>
| Contactor application | Motor control  
Resistive load |

### Complementary

| Utilisation category | AC-4  
AC-3  
AC-1 |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Poles description</td>
<td>3P</td>
</tr>
<tr>
<td>Power pole contact composition</td>
<td>3 NO</td>
</tr>
</tbody>
</table>
| [Ie] rated operational current | 20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit  
9 A at <= 440 V AC AC-3 for power circuit  
16 A (at <70 °C) at 690 V AC AC-1 for power circuit |
| Control circuit type | AC at 50/60 Hz |
| [Uc] control circuit voltage | 220...230 V AC 50/60 Hz |
| Motor power kW | 2.2 kW at 220...230 V AC 50/60 Hz AC-3  
4 kW at 380...415 V AC 50/60 Hz AC-3  
4 kW at 440 V AC 50/60 Hz AC-3  
4 kW at 480 V AC 50/60 Hz AC-3  
4 kW at 500...600 V AC 50/60 Hz AC-3  
4 kW at 660...690 V AC 50/60 Hz AC-3  
2.2 kW at 400 V AC 50/60 Hz AC-4 |
| Auxiliary contact composition | 1 NO |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 20 A (at 50 °C) for power circuit  
10 A (at 50 °C) for signalling circuit |
| Irms rated making capacity | 110 A AC for power circuit conforming to NF C 63-110  
110 A AC for power circuit conforming to IEC 60947 |

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.
**Rated breaking capacity**

- 110 A at 415 V conforming to IEC 60947
- 110 A at 440 V conforming to IEC 60947
- 80 A at 500 V conforming to IEC 60947
- 110 A at 220...230 V conforming to IEC 60947
- 110 A at 380...400 V conforming to IEC 60947
- 70 A at 660...690 V conforming to IEC 60947

**Associated fuse rating**

- 25 A gG at <= 440 V for power circuit
- 25 A aM for power circuit
- 10 A gG for signalling circuit conforming to IEC 60947
- 10 A gG for signalling circuit conforming to VDE 0660

**Average impedance**

- 3 mOhm - Ith 20 A 50 Hz for power circuit

**Insulation resistance**

- > 10 MOhm for signalling circuit

**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

**Control circuit voltage limits**

- Operational: 0.8...1.15 Uc (at <50 °C)
- Drop-out: 0.2...0.75 Uc (at <50 °C)

**Maximum operating rate**

- 3600 cyc/h

**Auxiliary contacts type**

- type instantaneous 1 NO

**Signalling circuit frequency**

- <= 400 Hz

**Minimum switching current**

- 5 mA for signalling circuit

**Minimum switching voltage**

- 17 V for signalling circuit

**Operating time**

- 10...20 ms coil de-energisation and NO opening
- 10...20 ms coil energisation and NO closing

**Safety reliability level**

- B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
- B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1

**Non overlap distance**

- 0.5 mm

**Mechanical robustness**

- Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27
- Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27
- Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27
- Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27
- Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27
- Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27
- Vibrations contactor closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6
- Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6

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**Environment**

<table>
<thead>
<tr>
<th>Product certifications</th>
<th>CSA</th>
<th>UL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protective treatment</td>
<td>TC conforming to IEC 60068</td>
<td>TC conforming to DIN 50016</td>
</tr>
<tr>
<td>Operating altitude</td>
<td>2000 m without</td>
<td></td>
</tr>
<tr>
<td>Flame retardance</td>
<td>V1 conforming to UL 94</td>
<td>Requirement 2 conforming to NF F 16-101</td>
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</tbody>
</table>

**Offer Sustainability**

<table>
<thead>
<tr>
<th>Sustainable offer status</th>
<th>Green Premium product</th>
</tr>
</thead>
<tbody>
<tr>
<td>REACh Regulation</td>
<td>REACh Declaration</td>
</tr>
<tr>
<td>EU RoHS Directive</td>
<td>Compliant</td>
</tr>
<tr>
<td>Mercury free</td>
<td>Yes</td>
</tr>
<tr>
<td>RoHS exemption information</td>
<td>Yes</td>
</tr>
<tr>
<td>China RoHS Regulation</td>
<td>China RoHS declaration</td>
</tr>
<tr>
<td>Environmental Disclosure</td>
<td>Product Environmental Profile</td>
</tr>
<tr>
<td>Circularity Profile</td>
<td>End of Life Information</td>
</tr>
<tr>
<td>WEEE</td>
<td>The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins</td>
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</tbody>
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## Contractual warranty

<table>
<thead>
<tr>
<th>Warranty</th>
<th>12 months</th>
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