# Product data sheet

Specifications

Green Premium™

## Contactor, TeSys K, 3P, AC-3, It or eq to 440V 9A, 1 NO aux., 220 to 230VAC coil

LC1K0910M7

**Product availability: Stock - Normally stocked in distribution facility**

**Price*: 75.00 USD**

## Main

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|---|---|
| **Range** | TeSys |
| **Product Or Component Type** | Contactor |
| **Device Application** | Control |
| **Contactor Application** | Motor control<br>Resistive load |

## Complementary

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| **Utilisation Category** | AC-3<br>AC-3e<br>AC-1<br>AC-4 |
| **Poles Description** | 3P |
| **Power Pole Contact Composition** | 3 NO |
| **[Ue] Rated Operational Voltage** | Power circuit <= 690 V AC <= 400 Hz<br>Signalling circuit <= 690 V AC <= 400 Hz |
| **[Ie] Rated Operational Current** | 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit<br>9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit<br>20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit |
| **Control Circuit Type** | AC 50/60 Hz |
| **[Uc] Control Circuit Voltage** | 220...230 V AC 50/60 Hz |
| **Motor Power Kw** | 2.2 kW 220...230 V AC 50/60 Hz AC-3<br>4 kW 380...415 V AC 50/60 Hz AC-3<br>4 kW 440/690 V AC 50/60 Hz AC-3<br>2.2 kW 220...230 V AC 50/60 Hz AC-3e<br>4 kW 380...415 V AC 50/60 Hz AC-3e<br>4 kW 440/690 V AC 50/60 Hz AC-3e<br>2.2 kW 220...230 V AC 50/60 Hz AC-4<br>4 kW 380...415 V AC 50/60 Hz AC-4<br>4 kW 440/690 V AC 50/60 Hz AC-4 |
| **Auxiliary Contact Composition** | 1 NO |
| **[Uimp] Rated Impulse Withstand Voltage** | 8 kV |
| **Overvoltage Category** | III |
| **[Ith] Conventional Free Air Thermal Current** | 20 A (at 140 °F (60 °C)) for power circuit<br>10 A (at 122 °F (50 °C)) for signalling circuit |
| **Irms Rated Making Capacity** | 110 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947 |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

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| **Rated Breaking Capacity** | 110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 V conforming to IEC 60947<br>110 A at 415 V conforming to IEC 60947<br>110 A at 440 V conforming to IEC 60947<br>80 A at 500 V conforming to IEC 60947<br>70 A at 660...690 V conforming to IEC 60947 |
| **[Icw] Rated Short-Time Withstand Current** | 90 A 122 °F (50 °C) - 1 s for power circuit<br>85 A 122 °F (50 °C) - 5 s for power circuit<br>80 A 122 °F (50 °C) - 10 s for power circuit<br>60 A 122 °F (50 °C) - 30 s for power circuit<br>45 A 122 °F (50 °C) - 1 min for power circuit<br>40 A 122 °F (50 °C) - 3 min for power circuit<br>20 A 122 °F (50 °C) - >= 15 min for power circuit<br>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit |
| **Associated Fuse Rating** | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit<br>10 A gG for signalling circuit conforming to IEC 60947<br>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 68 °F (20 °C)) |
| **Hold-In Power Consumption In Va** | 4.5 VA (at 68 °F (20 °C)) |
| **Heat Dissipation** | 1.3 W |
| **Control Circuit Voltage Limits** | Operational: 0.8...1.15 Uc (at <122 °F (50 °C))<br>Drop-out: >= 0.20 Uc (at <122 °F (50 °C)) |
| **Connections - Terminals** | screw clamp terminals 1 0.00…0.01 in² (1.5…4 mm²)solid<br>screw clamp terminals 1 0.00…0.01 in² (0.75…4 mm²)flexible without cable end<br>screw clamp terminals 1 0.00…0.00 in² (0.34…2.5 mm²)flexible with cable end<br>screw clamp terminals 2 0.00…0.01 in² (1.5…4 mm²)solid<br>screw clamp terminals 2 0.00…0.01 in² (0.75…4 mm²)flexible without cable end<br>screw clamp terminals 2 0.00…0.00 in² (0.34…1.5 mm²)flexible with cable end |
| **Maximum Operating Rate** | 3600 cyc/h |
| **Auxiliary Contacts 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<br>10...20 ms coil energisation and NO closing |
| **Safety Reliability Level** | B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 |
| **Non Overlap Distance** | 0.02 in (0.5 mm) |
| **Mechanical Durability** | 10 Mcycles |
| **Electrical Durability** | 1.3 Mcycles 9 A AC-3 <= 440 V<br>1.3 Mcycles 9 A AC-3e <= 440 V<br>0.16 Mcycles 20 A AC-1 <= 690 V<br>0.02 Mcycles 54 A AC-4 <= 440 V |
| **Mechanical Robustness** | Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6 |
| **Height** | 2.28 in (58 mm) |
| **Width** | 1.77 in (45 mm) |

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| **Depth** | 2.24 in (57 mm) |

## Environment

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| **Standards** | EN/IEC 60947-4-1<br>GB/T 14048.4<br>UL 60947-4-1<br>CSA C22.2 No 60947-4-1<br>JIS C8201-4-1 |
| **Product Certifications** | CB Scheme<br>CCC<br>UL<br>CSA<br>EAC<br>CE<br>UKCA |
| **Protective Treatment** | TC IEC 60068<br>TC DIN 50016 |
| **Operating Altitude** | 6561.68 ft (2000 m) without derating |
| **Flame Retardance** | V1 conforming to UL 94<br>Requirement 2 conforming to NF F 16-101<br>Requirement 2 conforming to NF F 16-102 |

## Ordering and shipping details

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|---|---|
| **Category** | US10I1222326 |
| **Discount Schedule** | 0I12 |
| **Gtin** | 3389110363876 |
| **Returnability** | Yes |
| **Country Of Origin** | FR |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 1.97 in (5.000 cm) |
| **Package 1 Width** | 2.36 in (6.000 cm) |
| **Package 1 Length** | 2.56 in (6.500 cm) |
| **Package 1 Weight** | 6.28 oz (178.000 g) |
| **Unit Type Of Package 2** | S02 |
| **Number Of Units In Package 2** | 50 |
| **Package 2 Height** | 5.91 in (15.000 cm) |
| **Package 2 Width** | 11.81 in (30.000 cm) |
| **Package 2 Length** | 15.75 in (40.000 cm) |
| **Package 2 Weight** | 20.17 lb(US) (9.149 kg) |
| **Unit Type Of Package 3** | P06 |
| **Number Of Units In Package 3** | 800 |
| **Package 3 Height** | 29.53 in (75.000 cm) |
| **Package 3 Width** | 31.50 in (80.000 cm) |
| **Package 3 Length** | 23.62 in (60.000 cm) |
| **Package 3 Weight** | 340.36 lb(US) (154.384 kg) |

## Contractual warranty

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|---|---|
| **Warranty** | 18 months |

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

## Well-being performance

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|---|---|
| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>EU RoHS Declaration |
| **China Rohs Regulation** | China RoHS declaration<br>Pro-active China RoHS declaration (out of China RoHS legal scope) |
| **Environmental Disclosure** | Product Environmental Profile |
| **Weee** | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |
| **Circularity Profile** | End of Life Information |
| **California Proposition 65** | WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov |