

# Product data sheet

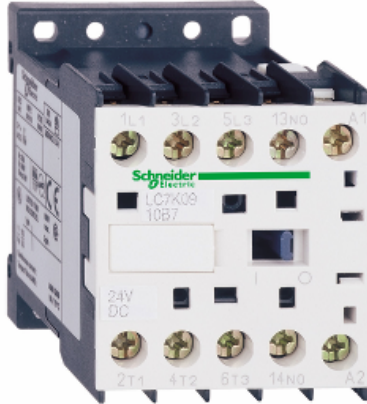
## Characteristics

# LC7K0901M7

TeSys K contactor - 3P - AC-3  $\leq$  440 V 9 A - 1  
NC aux. - 220...230 V AC coil

Product availability : Non-Stock - Not normally stocked in distribution facility

Price\* : 132.00 USD



### Main

|                           |                                 |
|---------------------------|---------------------------------|
| Range                     | TeSys                           |
| Product or component type | Contacteur                      |
| Product name              | TeSys K                         |
| Device short name         | LC7K                            |
| Device application        | Control                         |
| Contacteur application    | Resistive load<br>Motor control |

### Complementary

|   |   |
|---|---|
| Utilisation category                        | AC-4<br>AC-3<br>AC-1  |
| Poles description                           | 3P  |
| Power pole contact composition              | 3 NO  |
| [Ue] rated operational voltage              | Power circuit 690 V AC 50/60 Hz<br>Signalling circuit $\leq$ 690 V AC 50/60 Hz  |
| [Ie] rated operational current              | 20 A 122 °F (50 °C) $\leq$ 440 V AC AC-1 power circuit<br>9 A $\leq$ 440 V AC AC-3 power circuit<br>16 A 158 °F (70 °C) 690 V AC AC-1 power circuit   |
| Control circuit type                        | AC 50/60 Hz silent  |
| [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 V AC 50/60 Hz AC-3<br>4 kW 480 V AC 50/60 Hz AC-3<br>4 kW 500...600 V AC 50/60 Hz AC-3<br>4 kW 660...690 V AC 50/60 Hz AC-3<br>2.2 kW 400 V AC 50/60 Hz AC-4 |
| Auxiliary contact composition               | 1 NC  |
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overtoltage category                        | III   |
| [Ith] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit<br>10 A 122 °F (50 °C) signalling circuit   |

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

|  |  |
|--|--|
| Irms rated making capacity               | 110 A AC power circuit NF C 63-110<br>110 A AC power circuit IEC 60947<br>110 A AC signalling circuit IEC 60947  |
| Rated breaking capacity                  | 110 A 415 V IEC 60947<br>110 A 440 V IEC 60947<br>80 A 500 V IEC 60947<br>110 A 220...230 V IEC 60947<br>110 A 380...400 V IEC 60947<br>70 A 660...690 V IEC 60947   |
| [Icw] rated short-time withstand current | 90 A 122 °F (50 °C) - 1 s power circuit<br>85 A 122 °F (50 °C) - 5 s power circuit<br>80 A 122 °F (50 °C) - 10 s power circuit<br>60 A 122 °F (50 °C) - 30 s power circuit<br>45 A 122 °F (50 °C) - 1 min power circuit<br>40 A 122 °F (50 °C) - 3 min power circuit<br>20 A 122 °F (50 °C) - >= 15 min power circuit<br>80 A - 1 s signalling circuit<br>90 A - 500 ms signalling circuit<br>110 A - 100 ms signalling circuit  |
| Associated fuse rating                   | 25 A gG <= 440 V power circuit<br>25 A aM power circuit<br>10 A gG signalling circuit IEC 60947<br>10 A gG signalling circuit VDE 0660   |
| Average impedance                        | 3 mOhm - lth 20 A 50 Hz power circuit  |
| [Ui] rated insulation voltage            | Power circuit 600 V UL 508<br>Power circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-4-1<br>Signalling circuit 690 V IEC 60947-5-1<br>Signalling circuit 600 V UL 508<br>Power circuit 600 V CSA C22.2 No 14<br>Signalling circuit 600 V CSA C22.2 No 14  |
| Insulation resistance                    | > 10 MOhm signalling circuit   |
| Inrush power in VA                       | 3 VA 68 °F (20 °C))  |
| Hold-in power consumption in VA          | 3 VA 68 °F (20 °C))  |
| Heat dissipation                         | 3 W  |
| Control circuit voltage limits           | Operational 0.85...1.1 U <sub>c</sub> 122 °F (50 °C))<br>Drop-out 0.1...0.75 U <sub>c</sub> 122 °F (50 °C))  |
| Connections - terminals                  | screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 1 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>screw clamp terminals 1 0.00...0.00 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> )flexible with cable end<br>screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid<br>screw clamp terminals 2 0.00...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end<br>screw clamp terminals 2 0.00...0.00 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end |
| Maximum operating rate                   | 3600 cyc/h   |
| Auxiliary contacts type                  | Instantaneous 1 NC   |
| Signalling circuit frequency             | <= 400 Hz  |
| Minimum switching current                | 5 mA signalling circuit  |
| Minimum switching voltage                | 17 V signalling circuit  |
| Mounting support                         | Rail<br>Plate  |
| Tightening torque                        | 11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2<br>11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm  |
| Operating time                           | 30...40 ms coil energisation and NO closing<br>30 ms coil de-energisation and NO opening   |
| 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                    | 0.18 Mcycles 20 A AC-1 <= 440 V<br>1.3 Mcycles 9 A AC-3 <= 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  |

Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27  
 Vibrations contactor closed4 Gn, 5...300 Hz IEC 60068-2-6  
 Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6

|            |                        |
|------------|------------------------|
| Height     | 2.28 in (58 mm)        |
| Width      | 1.77 in (45 mm)        |
| Depth      | 2.24 in (57 mm)        |
| Net Weight | 0.50 lb(US) (0.225 kg) |

## Environment

|                                     |  |
|-------------------------------------|--|
| Standards                           | BS 5424<br>IEC 60947<br>NF C 63-110<br>VDE 0660  |
| Product certifications              | UL<br>CSA  |
| IP degree of protection             | IP2x VDE 0106  |
| Protective treatment                | TC IEC 60068<br>TC DIN 50016   |
| Ambient air temperature for storage | -58...176 °F (-50...80 °C)   |
| 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

|                       |                                   |
|-----------------------|-----------------------------------|
| Category              | 22326 - CTR,K-LINE,AC,OPEN,NONREV |
| Discount Schedule     | I12                               |
| GTIN                  | 03389110493108                    |
| Nbr. of units in pkg. | 1                                 |
| Package weight(Lbs)   | 7.69 oz (218 g)                   |
| Returnability         | No                                |
| Country of origin     | FR                                |

## Packing Units

|                              |                         |
|------------------------------|-------------------------|
| Unit Type of Package 1       | PCE                     |
| Package 1 Height             | 1.69 in (4.3 cm)        |
| Package 1 width              | 2.40 in (6.1 cm)        |
| Package 1 Length             | 2.56 in (6.5 cm)        |
| Unit Type of Package 2       | S02                     |
| Number of Units in Package 2 | 40                      |
| Package 2 Weight             | 20.14 lb(US) (9.137 kg) |
| Package 2 Height             | 5.91 in (15 cm)         |
| Package 2 width              | 11.81 in (30 cm)        |
| Package 2 Length             | 15.75 in (40 cm)        |

## Offer Sustainability

|                            |   |
|----------------------------|---|
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a>  |
| Mercury free               | Yes   |
| RoHS exemption information | <a href="#">Yes</a>   |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>  |

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

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WEEE

The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

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### Contractual warranty

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Warranty

18 months

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