



❗ Discontinued

LC1K090047M7 has not been replaced. Please contact your customer care center for more information.

## Main

|                           |                |
|---------------------------|----------------|
| Range                     | TeSys          |
| Product or component type | Contactor      |
| Product name              | TeSys K        |
| Device short name         | LC1K           |
| Device application        | Control        |
| Contactor application     | Resistive load |

## Complementary

|   |  |
|---|--|
| Utilisation category                        | AC-1   |
| Poles description                           | 4P   |
| Power pole contact composition              | 4 NO   |
| [Ue] rated operational voltage              | Power circuit 690 V AC 50/60 Hz  |
| [Ie] rated operational current              | 20 A 122 °F (50 °C) ≤ 440 V AC AC-1 power circuit<br>16 A 158 °F (70 °C) 690 V AC AC-1 power circuit   |
| Control circuit type                        | AC 50/60 Hz  |
| [Uc] control circuit voltage                | 220...230 V AC 50/60 Hz  |
| [Uimp] rated impulse withstand voltage      | 8 kV   |
| Overvoltage category                        | III  |
| [Ith] conventional free air thermal current | 20 A 122 °F (50 °C) power circuit  |
| Irms rated making capacity                  | 110 A AC power circuit NF C 63-110<br>110 A AC power 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   |

|                                 |   |
|---------------------------------|---|
|                                 | 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   |
| Associated fuse rating          | 25 A gG <= 440 V power circuit<br>25 A aM power circuit   |
| 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>Power circuit 600 V CSA C22.2 No 14  |
| Inrush power in VA              | 30 VA 68 °F (20 °C))  |
| Hold-in power consumption in VA | 4.5 VA 68 °F (20 °C))   |
| Heat dissipation                | 1.3 W   |
| Control circuit voltage limits  | Operational 0.8...1.15 Uc 122 °F (50 °C))<br>Drop-out 0.2...0.75 Uc 122 °F (50 °C))   |
| Connections - terminals         | Faston terminals 2 2.8 mm<br>Faston terminals 1 6.35 mm   |
| Maximum operating rate          | 3600 cyc/h  |
| Signalling circuit frequency    | <= 400 Hz   |
| Mounting support                | Rail<br>Plate   |
| 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  |
| Mechanical durability           | 10 Mcycles  |
| Electrical durability           | 0.18 Mcycles 20 A AC-1 <= 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)   |
| Depth                           | 2.24 in (57 mm)   |
| Net weight                      | 0.40 lb(US) (0.18 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  |
| Flame retardance                    | V1 UL 94<br>Requirement 2 NF F 16-101<br>Requirement 2 NF F 16-102 |

## Ordering and shipping details

|                   |                                 |
|-------------------|---------------------------------|
| Category          | 22326-CTR,K-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12                             |

|               |                |
|---------------|----------------|
| GTIN          | 03389110488708 |
| Returnability | No             |

### Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           | <a href="#">REACH Declaration</a>  |
| REACH free of SVHC         | Yes  |
| 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><br>Product out of China RoHS scope. Substance declaration for your information.       |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>  |
| Circularity Profile        | <a href="#">End of Life Information</a>  |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

### Contractual warranty

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