

# LC1K0910G7

Contactor, IEC, TeSys K, 9A, 3 P, 5 HP at 480VAC, nonreversing, 1 NO auxilliary contact, 120VAC 50/60 Hz coil



## Main

|                           |                                 |
|---------------------------|---------------------------------|
| Range                     | TeSys                           |
| Product or Component Type | Contactor                       |
| Product name              | TeSys K                         |
| Device short name         | LC1K                            |
| Device Application        | Control                         |
| Contactor application     | Motor control<br>Resistive load |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Utilisation category                        | AC-1<br>AC-3<br>AC-4<br>AC-3e                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Poles description                           | 3P                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Power pole contact composition              | 3 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| [Ie] rated operational current              | 20 A 122 °F (50 °C)) ≤ 440 V AC AC-1 power circuit<br>9 A ≤ 440 V AC AC-3 power circuit<br>16 A 158 °F (70 °C)) 690 V AC AC-1 power circuit<br>9 A ≤ 440 V AC AC-3e power circuit                                                                                                                                                                                                                                                                                           |
| Control circuit type                        | AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Uc] control circuit voltage                | 120 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<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 V AC 50/60 Hz AC-3e<br>4 KW 480 V AC 50/60 Hz AC-3e<br>4 KW 500...600 V AC 50/60 Hz AC-3e<br>4 KW 660...690 V AC 50/60 Hz AC-3e |
| Auxiliary contact composition               | 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Overvoltage 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                                                                                                                                                                                                                                                                                                                                                                                                 |
| 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                                                                                                                                                                                                                                                                                                          |

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|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Insulation resistance           | > 10 MOhm signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 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 U <sub>c</sub> 122 °F (50 °C))<br>Drop-out 0.2...0.75 U <sub>c</sub> 122 °F (50 °C))                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Maximum operating rate          | 3600 cyc/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Auxiliary contacts type         | Instantaneous 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Signalling circuit frequency    | <= 400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Minimum switching current       | 5 mA signalling circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Minimum switching voltage       | 17 V 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 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 |

## Environment

|                        |                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------|
| 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

|                   |                                 |
|-------------------|---------------------------------|
| Category          | 22326-CTR,K-LINE,AC,OPEN,NONREV |
| Discount Schedule | I12                             |
| GTIN              | 3389110604160                   |
| Returnability     | Yes                             |
| Country of origin | ID                              |

## Packing Units

|                              |                  |
|------------------------------|------------------|
| Unit Type of Package 1       | PCE              |
| Number of Units in Package 1 | 1                |
| Package 1 Height             | 2.56 in (6.5 cm) |
| Package 1 Width              | 1.89 in (4.8 cm) |
| Package 1 Length             | 2.44 in (6.2 cm) |

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