





## Main

|   |   |
|---|---|
| Range                                       | TeSys   |
| Product name                                | TeSys K   |
| Product or Component Type                   | Reversing contactor   |
| Device short name                           | LC2K  |
| Device Application                          | Control   |
| Contactor application                       | Motor control   |
| Utilisation category                        | AC-4<br>AC-3  |
| Device presentation                         | Preassembled with reversing power busbar  |
| Poles description                           | 3P  |
| Power pole contact composition              | 3 NO  |
| [Ue] rated operational voltage              | Power circuit 690 V AC 50/60 Hz<br>Signalling circuit <= 690 V AC 50/60 Hz  |
| [Ie] rated operational current              | 6 A at <= 440 V AC AC-3 for power circuit   |
| Motor power kW                              | 1.5 KW 220...230 V AC 50/60 Hz<br>2.2 KW 380...415 V AC 50/60 Hz<br>3 KW 440 V AC 50/60 Hz<br>3 KW 480 V AC 50/60 Hz<br>3 KW 500...600 V AC 50/60 Hz<br>3 kW 660...690 V AC 50/60 Hz  |
| Control circuit type                        | AC 50/60 Hz   |
| [Uc] control circuit voltage                | 220...230 V AC 50/60 Hz   |
| Auxiliary contact composition               | 1 NO  |
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| Overtoltage category                        | III   |
| [Ith] conventional free air thermal current | 20 A (at 122 °F (50 °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 NF C 63-110<br>110 A AC for power circuit conforming to IEC 60947<br>110 A AC for signalling circuit conforming to IEC 60947   |
| Rated breaking capacity                     | 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>110 A at 220...230 V conforming to IEC 60947<br>110 A at 380...400 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>80 A - 1 s for signalling circuit<br>90 A - 500 ms for signalling circuit<br>110 A - 100 ms for signalling circuit<br>20 A 122 °F (50 °C) - >= 15 min for power 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   |

|                               |   |
|-------------------------------|---|
| [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 |
| Electrical durability         | 1.3 Mcycles 6 A AC-3 <= 440 V<br>1.3 Mcycles 6 A AC-3e <= 440 V<br>0.05 Mcycles 36 A AC-4 <= 440 V  |
| Interlocking type             | Mechanical  |
| Mounting Support              | Plate<br>Rail   |
| 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<br>Scheme[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EA  |
| Connections - terminals       | Solder pins 0.00 in (0.035 mm))   |
| Operating time                | 10...20 ms coil energisation and NO closing<br>10...20 ms coil de-energisation and NO opening   |
| Safety reliability level      | B10d = 1369863 cycles contactor with nominal load<br>EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load<br>EN/ISO 13849-1  |
| Mechanical durability         | 5 Mcycles   |
| Maximum operating rate        | 3600 cyc/h  |

## Complementary

|                                 |   |
|---------------------------------|---|
| Control circuit voltage limits  | Operational: 0.85...1.1 U <sub>c</sub> (at <122 °F (50 °C))<br>Drop-out: 0.2...0.75 U <sub>c</sub> (at <122 °F (50 °C)) |
| 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   |
| 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   |
| Non overlap distance            | 0.02 in (0.5 mm)  |
| Insulation resistance           | > 10 MOhm for signalling circuit  |

## Environment

|                                       |   |
|---------------------------------------|---|
| IP degree of protection               | IP20 VDE 0106   |
| Protective treatment                  | TC IEC 60068<br>TC DIN 50016  |
| Ambient Air Temperature for Operation | -13...122 °F (-25...50 °C)  |
| 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  |
| Mechanical robustness                 | Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27<br>Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27<br>Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6<br>Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6 |
| Height                                | 2.28 in (58 mm)   |
| Width                                 | 3.54 in (90 mm)   |

|            |                       |
|------------|-----------------------|
| Depth      | 2.24 in (57 mm)       |
| Net Weight | 0.86 lb(US) (0.39 kg) |

### Ordering and shipping details

|                   |                              |
|-------------------|------------------------------|
| Category          | 22327-CTR,K-LINE,AC,OPEN,REV |
| Discount Schedule | I12                          |
| GTIN              | 3389110491470                |
| Returnability     | No                           |

### 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              | 3.74 in (9.5 cm)   |
| Package 1 Length             | 2.36 in (6.0 cm)   |
| Package 1 Weight             | 14.76 oz (418.5 g) |

### Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product  |
| REACH Regulation           | <a href="#">REACH Declaration</a>  |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>  |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>   |
| RoHS exemption information | <a href="#">Yes</a>  |
| 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 |
|----------|-----------|