# *Product datasheet*
*Characteristics*

# LC1K120047B7
TeSys K contactor - 4P(4 NO) - AC-1 - <= 440 V 20 A - 24 V AC coil

## Main

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|---|---|
| Range | TeSys |
| Product name | TeSys K |
| Device short name | LC1K |
| Contactor application | Resistive load |
| Utilisation category | AC-1 |
| Pole contact composition | 4 NO |
| [Ie] rated operational current | 20 A (<= 50 °C) at <= 440 V AC AC-1 for power circuit<br>16 A (<= 70 °C) at 690 V AC AC-1 for power circuit |
| Control circuit type | AC 50/60 Hz |
| Control circuit voltage | 24 V AC 50/60 Hz |
| Overvoltage category | III |
| [Ith] conventional free air thermal current | 20 A at <= 50 °C for power circuit |
| Irms rated making capacity | 144 A AC for power circuit conforming to NF C 63-110<br>144 A AC for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 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 |
| Associated fuse rating | 25 A gG at <= 440 V for power circuit<br>25 A aM for power circuit |
| Average impedance | 3 mOhm at 50 Hz - Ith 20 A for power circuit |
| Product certifications | CSA<br>UL |
| 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 conforming to EN/ISO 13849-1<br>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 |
| Operating rate | 3600 cyc/h |

## Complementary

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|---|---|
| Control circuit voltage limits | 0.2...0.75 Uc at <= 50 °C drop-out<br>0.8...1.15 Uc at <= 50 °C operational |
| Inrush power in VA | 30 VA at 20 °C |
| Hold-in power consumption in VA | 4.5 VA at 20 °C |
| Heat dissipation | 1.3 W |
| Signalling circuit frequency | <= 400 Hz |

## Environment

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|---|---|
| Protective treatment | TC conforming to IEC 60068<br>TC conforming to DIN 50016 |
| Operating altitude | 2000 m without derating in temperature |
| 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 |

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

## Offer Sustainability

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|---|---|
| Sustainable offer status | Not Green Premium product |
| RoHS | Compliant - since 0711 - Schneider Electric declaration of conformity |
| Product end of life instructions | Need no specific recycling operations |