

LC1K120045N7

TeSys K contactor - 4P(4 NO) - AC-1 - ≤ 440 V 20 A - 400...415 V AC coil



Main

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 16 A (≤ 70 °C) at 690 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz
Control circuit voltage	400...415 V AC 50/60 Hz
Overtoltage 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 63-110 144 A AC for power circuit conforming to IEC 60947
Rated breaking capacity	110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
Associated fuse rating	25 A gG at ≤ 440 V for power circuit 25 A aM for power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit
Product certifications	CSA UL
Operating time	10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Operating rate	3600 cyc/h

Complementary

Control circuit voltage limits	0.2...0.75 Uc at ≤ 50 °C drop-out 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

Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
Operating altitude	2000 m without derating in temperature
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 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 Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27 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
Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27
Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6
Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6

Offer Sustainability

Sustainable offer status	Not Green Premium product
RoHS	Compliant - since 0640 - Schneider Electric declaration of conformity
Product end of life instructions	Need no specific recycling operations
