



ⓘ Discontinued

LC7K120047D7 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	LC7K
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	690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	20 A (\leq 50 °C) at \leq 440 V AC AC-1 for power circuit 16 A (\leq 70 °C) at 690 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz silent
[Uc] control circuit voltage	42 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A at \leq 50 °C for power circuit
Rms 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
[Icw] rated short-time withstand current	25 A \leq 50 °C \geq 15 min power circuit 115 A \leq 50 °C 1 s power circuit 105 A \leq 50 °C 5 s power circuit 100 A \leq 50 °C 10 s power circuit 75 A \leq 50 °C 30 s power circuit 55 A \leq 50 °C 1 min power circuit 50 A \leq 50 °C 3 min power circuit
Associated fuse rating	25 A gG at \leq 440 V for power circuit 25 A aM for power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit
[Ui] rated insulation voltage	600 V for power circuit conforming to CSA C22.2 No 14

	690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508
Inrush power in VA	3 VA at 20 °C
Hold-in power consumption in VA	3 VA at 20 °C
Heat dissipation	3 W
Control circuit voltage limits	0.85...1.1 U _c at ≤ 50 °C operational 0.1...0.75 U _c at ≤ 50 °C drop-out
Connections - terminals	Faston terminals 1 6.35 mm Faston terminals 2 2.8 mm
Operating rate	3600 cyc/h
Signalling circuit frequency	≤ 400 Hz
Mounting support	Plate Rail
Operating time	30 ms coil de-energisation and NO opening 30...40 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
Mechanical durability	10 Mcycles
Electrical durability	0.3 Mcycles 20 A AC-1 at U _e ≤ 440 V
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 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
Height	58 mm
Width	45 mm
Depth	57 mm
Product weight	0.225 kg

Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL
IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
Ambient air temperature for operation	-25...50 °C
Ambient air temperature for storage	-50...80 °C
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

Contractual warranty

Warranty period	18 months
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