

LC7K12017E7

TeSys K contactor - 3P - AC-3 \leq 440 V 12 A - 1
NC aux. - 48 V AC coil



ⓘ Discontinued

LC7K12017E7 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	Motor control Resistive load

Complementary

Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit \leq 690 V AC 50/60 Hz for signalling 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 12 A at \leq 440 V AC AC-3 for power circuit
Control circuit type	AC 50/60 Hz silent
[Uc] control circuit voltage	48 V AC 50/60 Hz
Motor power kW	3 kW at 220...230 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz 4 kW at 500...600 V AC 50/60 Hz 4 kW at 660...690 V AC 50/60 Hz 5.5 kW at 380...415 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz
Auxiliary contact composition	1 NC
[Uimp] rated impulse withstand voltage	8 kV
Overtoltage category	III
[Ith] conventional free air thermal current	20 A at \leq 50 °C for power circuit 10 A at \leq 50 °C for signalling circuit
Irms rated making capacity	110 A AC for signalling circuit conforming to IEC 60947 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

	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 $\leq 50\text{ }^{\circ}\text{C} \geq 15$ min power circuit 80 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit 115 A $\leq 50\text{ }^{\circ}\text{C}$ 1 s power circuit 105 A $\leq 50\text{ }^{\circ}\text{C}$ 5 s power circuit 100 A $\leq 50\text{ }^{\circ}\text{C}$ 10 s power circuit 75 A $\leq 50\text{ }^{\circ}\text{C}$ 30 s power circuit 55 A $\leq 50\text{ }^{\circ}\text{C}$ 1 min power circuit 50 A $\leq 50\text{ }^{\circ}\text{C}$ 3 min power circuit
Associated fuse rating	25 A gG at ≤ 440 V for power circuit 25 A aM for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit
[Ui] rated insulation voltage	690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling 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
Insulation resistance	> 10 MOhm for signalling circuit
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 Uc at $\leq 50\text{ }^{\circ}\text{C}$ operational 0.1...0.75 Uc at $\leq 50\text{ }^{\circ}\text{C}$ drop-out
Connections - terminals	Faston terminals 1 6.35 mm Faston terminals 2 2.8 mm
Operating rate	3600 cyc/h
Auxiliary contacts type	Type instantaneous (1 NC)
Signalling circuit frequency	≤ 400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
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
Non overlap distance	0.5 mm
Mechanical durability	10 Mcycles
Electrical durability	0.3 Mcycles 20 A AC-1 at Ue ≤ 440 V 1.3 Mcycles 12 A AC-3 at Ue ≤ 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
Depth	57 mm
Product weight	0.225 kg

Environment

Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
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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 storage	-50...80 °C
Operating altitude	2000 m without derating
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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