

Product data sheet

Specifications



TeSys K contactor , 4P (4 NO) , AC, 1 <= 440 V 20 A , 42 V AC coil

LC7K12004D7

⚠ Discontinued on: Jul 24, 2022

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Main

Range of product	TeSys K
Range	TeSys
Product name	TeSys K
Device application	Control
Product or component type	Contacteur
Device short name	LC7K
Utilisation category	AC-1
Poles description	4P
Pole contact composition	4 NO
[Ie] rated operational current	20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit 16 A (at <70 °C) at 690 V AC AC-1 for power circuit
Signalling circuit frequency	<= 400 Hz

Complementary

Contacteur application	Resistive load
Control circuit voltage limits	Operational: 0.85...1.1 Uc (at <50 °C) Drop-out: 0.1...0.75 Uc (at <50 °C)
Control circuit type	AC at 50/60 Hz silent
[Uc] control circuit voltage	42 V AC 50/60 Hz
Connections - terminals	Screw clamp terminals 1 cable(s) 1.5...4 mm²solid Screw clamp terminals 1 cable(s) 0.75...4 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.34...2.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 1.5...4 mm²solid Screw clamp terminals 2 cable(s) 0.75...4 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.34...1.5 mm²flexible with cable end
Electrical durability	0.3 Mcycles 20 A AC-1 at Ue <= 440 V
Mechanical robustness	Shocks contacteur closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contacteur closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contacteur closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contacteur opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contacteur opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contacteur opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contacteur closed: 4 Gn, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contacteur opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6
Standards	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1

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

IP degree of protection	IP2X conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
[Ui] rated insulation voltage	Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to CSA C22.2 No 14
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
Mounting support	Rail Plate
Product certifications	CB Scheme CCC UL CSA EAC CE UKCA
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without derating
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz
[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 - Ith 20 A 50 Hz for power circuit
Inrush power in VA	3 VA (at 20 °C)
Hold-in power consumption in VA	3 VA (at 20 °C)
Operating time	30...40 ms coil energisation and NO closing 30 ms coil de-energisation and NO opening
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
Maximum operating rate	3600 cyc/h
Height	58 mm
Width	45 mm
Depth	57 mm
Net weight	0.225 kg
Compatibility code	LC7K

Environment

[Icw] rated short-time withstand current	115 A 50 °C - 1 s for power circuit
	105 A 50 °C - 5 s for power circuit
	100 A 50 °C - 10 s for power circuit
	75 A 50 °C - 30 s for power circuit
	55 A 50 °C - 1 min for power circuit
	50 A 50 °C - 3 min for power circuit
	25 A 50 °C - >= 15 min for power circuit
Heat dissipation	3 W
Flame retardance	V1 conforming to UL 94
	Requirement 2 conforming to NF F 16-101
	Requirement 2 conforming to NF F 16-102

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No