# **Product datasheet** Characteristics

# LC7K12004B7

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





### Main

Range	TeSys	
Product or component type	Contactor	į
Product name	TeSys K	
Device short name	LC7K	ў #
Device application	Control	
Contactor application	Resistive load	

## Complementary

Utilisation category	AC-1	- uiu
Poles description	4P	termi
Power pole contact composition	4 NO	for de
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz	l best
[le] 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	ot to be
Control circuit type	AC at 50/60 Hz silent	_ <u>.v.</u>
[Uc] control circuit voltage	24 V AC 50/60 Hz	or an
[Uimp] rated impulse withstand voltage	8 kV	-tute
Overvoltage category	III	inbst
[lth] conventional free air thermal current	20 A (at 50 °C) for power circuit	ed as a
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	l of intend
Rated breaking capacity	110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947	l nentation is r
[lcw] 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	laimer: This docum

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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  [Ui] rated insulation voltage  Power circuit: 600 V conforming to UL 508 Power circuit: 600 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to IEC 60947-4-1 Power circuit: 600 V conforming to CSA C22.2 No 14  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  Operational: 0.851.1 Uc (at <50 °C) Drop-out: 0.10.75 Uc (at <50 °C) Connections - terminals  Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.342.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.754 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end Screw clamp termi		
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Rail         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         Operating time       3040 ms coil energisation and NO closing         30 ms coil de-energisation and NO opening		
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Safety reliability level B10d = 1369863 cycles contactor with nominal load conforming to FN/ISO 1384	· ·	
	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	10 Mcycles	
Electrical durability 0.3 Mcycles 20 A AC-1 at Ue <= 440 V	0.3 Mcycles 20 A AC-1 at Ue <= 440 V	
Mechanical robustness  Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2 Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-3 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-3 Vibrations contactor closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6	2-27 1-27 -27 2-27	
Depth 57 mm		
Net weight 0.225 kg		
Environment		
Standards  BS 5424  IEC 60947  NF C 63-110  VDE 0660		
Product certifications UL CSA		
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 -5080 °C		
Operating altitude 2000 m without		
Flame retardance  V1 conforming to UL 94  Requirement 2 conforming to NF F 16-101  Requirement 2 conforming to NF F 16-102		

Green Premium product

Compliant

Offer Sustainability
Sustainable offer status

EU RoHS Directive

#### **EU RoHS Declaration**

Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE The product must be disposed on European Union markets following specific never end up in rubbish bins		

#### Contractual warranty

Warranty	18 months