## Product data sheet Characteristics

# LC1K09004U7

TeSys K contactor - 4P (4 NO) - AC-1 <= 440 V 20 A - 230...240 V AC coil



Local distributor code: 386125696 EAN Code: 3389110488500



### Main

Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	
Device short name	LC1K	
Device application	Control	
Contactor application	Resistive load	

Complementary	
Utilisation category	AC-1
Poles description	4P
Pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz
[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
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	230240 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 KV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A (at 50 °C) for power circuit
Irms rated making capacity	110 A AC for power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947
Rated breaking capacity	110 A at 415 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947
[lcw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit 85 A 50 °C - 5 s for power circuit 80 A 50 °C - 10 s for power circuit 60 A 50 °C - 30 s for power circuit 45 A 50 °C - 1 min for power circuit 40 A 50 °C - 3 min for power circuit 20 A 50 °C ->= 15 min for power circuit
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

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[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	
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	
Control circuit voltage limits	Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C)	
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm²solid 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) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end	
Maximum operating rate	3600 Cyc/H	
Signalling circuit frequency	<= 400 Hz	
Mounting support	Rail Plate	
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 1.3 N.M - on screw clamp terminals - with screwdriver pozidriv No 2	
Operating time	1020 ms coil de-energisation and NO opening 1020 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	0.18 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 60068-2-27 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming-to IEC 60068-2-27 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming-to IEC 60068-2-27 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming-to IEC 60068-2-27 Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming-to IEC 60068-2-27 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming-to IEC 60068-2-27 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	
Height	58 Mm	
Vidth	45 Mm	
Depth	57 Mm	
Net weight	0.18 Kg	
Environment		
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660	
Product certifications	CSA UL UKCA	
P 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 derating	
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

PCE
1
182.5 G
4.7 Cm
6.2 Cm
6.6 Cm
S02
50
9.355 Kg
15.0 Cm
30.0 Cm
40.0 Cm
P06
800
158.18 Kg
75.0 Cm
80.0 Cm
60.0 Cm

### Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant    ☐EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	☐ China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

### Contractual warranty

Warranty	18 months

Product Life Status : Commercialised