Product datasheet





Contactor, TeSys K, 3P, AC-3/ AC-3e,<=440V 6A, aux. 1NC, 230...240V AC coil

LC1K0601U7

Main

Range	TeSys
Product Or Component Type	Contactor
Device Short Name	LC1K
Device Application	Control
Contactor Application	Motor control

Complementary	
Utilisation Category	AC-3 AC-3e AC-4
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC <= 400 Hz Signalling circuit: <= 690 V AC <= 400 Hz
[le] Rated Operational Current	6 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 6 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
Control Circuit Type	AC at 50/60 Hz
[Uc] Control Circuit Voltage	230240 V AC 50/60 Hz
Motor Power Kw	1.5 kW at 220230 V AC 50/60 Hz AC-3 2.2 kW at 380415 V AC 50/60 Hz AC-3 3 kW at 440/690 V AC 50/60 Hz AC-3 1.5 kW at 220230 V AC 50/60 Hz AC-3e 2.2 kW at 380415 V AC 50/60 Hz AC-3e 3 kW at 440/690 V AC 50/60 Hz AC-3e 1.5 kW at 220230 V AC 50/60 Hz AC-4 2.2 kW at 380415 V AC 50/60 Hz AC-4 3 kW at 440/690 V AC 50/60 Hz AC-4
Auxiliary Contact Composition	1 NC
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	20 A (at 60 °C) for power circuit 10 A (at 50 °C) for signalling circuit
Irms Rated Making Capacity	110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947
Rated Breaking Capacity	110 A at 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 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 70 A at 660690 V conforming to IEC 60947

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[Icw] Rated Short-Time Withstand	90 A 50 °C - 1 s for power circuit
Current	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 80 A - 1 s for signalling circuit
	90 A - 500 ms for signalling circuit
	110 A - 100 ms for signalling 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 - Ith 20 A 50 Hz for power circuit
[Ui] Rated Insulation Voltage	Power circuit: 600 V conforming to LIL 509
[OI] Nated Insulation Voltage	Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 690 V conforming to IEC 60947-4-1
	Signalling circuit: 600 V conforming to UL 508
	Power circuit: 600 V conforming to CSA C22.2 No 14
	Signalling circuit: 600 V conforming to CSA C22.2 No 14
Insulation Resistance	
	> 10 MOhm for signalling circuit
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 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
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
Manuation Comment	
Mounting Support	Plate Rail
Tightening Torque	0.81.3 N.m - on screw clamp terminals Philips No 2
gtorning rorquo	0.81.3 N.m - on screw clamp terminals Philips No 2
Operating Time	1020 ms coil de-energisation and NO opening
	1020 his coil de-energisation and NO opening 1020 ms coil energisation and NO closing
Safety Reliability Level	P10d = 1260062 guales contactes with remine! lead agriculture to ENUCO 10010
Carety Remaining 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	1.3 Mcycles 6 A AC-3 at Ue <= 440 V
2.000.10di Darabiity	1.3 Mcycles 6 A AC-3 at Ue <= 440 V 1.3 Mcycles 6 A AC-3 at Ue <= 440 V 0.05 Mcycles 36 A AC-4 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
Width	45 mm
Depth	57 mm
Net Weight	0.18 kg

Environment

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
Product Certifications	CB Scheme CCC UL CSA EAC CE
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 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

Unit Type Of Package 1 Package 1 Height 6.500 cm Package 1 Width 6.500 cm Package 1 Length 5.000 cm Package 1 Weight 182.000 g Unit Type Of Package 2 So2 Number Of Units In Package 2 Package 2 Height 15.000 cm Package 2 Height 15.000 cm Package 2 Uidth 30.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 Po6 Number Of Units In Package 3 Po6	
Package 1 Height 6.500 cm Package 1 Width 6.500 cm Package 1 Length 5.000 cm Package 1 Weight 182.000 g Unit Type Of Package 2 S02 Number Of Units In Package 2 50 Package 2 Height 15.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Unit Type Of Package 1 PCE
Package 1 Width 6.500 cm Package 1 Length 5.000 cm Package 1 Weight 182.000 g Unit Type Of Package 2 S02 Number Of Units In Package 2 50 Package 2 Height 15.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Number Of Units In Package 1 1
Package 1 Length 5.000 cm Package 1 Weight 182.000 g Unit Type Of Package 2 S02 Number Of Units In Package 2 50 Package 2 Height 15.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Package 1 Height 6.50
Package 1 Weight 182.000 g Unit Type Of Package 2 S02 Number Of Units In Package 2 50 Package 2 Height 15.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Package 1 Width 6.50
Unit Type Of Package 2 S02 Number Of Units In Package 2 50 Package 2 Height 15.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Package 1 Length 5.00
Number Of Units In Package 2 50 Package 2 Height 15.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Package 1 Weight 182.
Package 2 Height 15.000 cm Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Unit Type Of Package 2 S02
Package 2 Width 30.000 cm Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Number Of Units In Package 2 50
Package 2 Length 40.000 cm Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Package 2 Height 15.0
Package 2 Weight 9.360 kg Unit Type Of Package 3 P06	Package 2 Width 30.0
Unit Type Of Package 3 P06	Package 2 Length 40.0
	Package 2 Weight 9.36
Number Of Units In Package 3 800	Unit Type Of Package 3 P06
	Number Of Units In Package 3 800
Package 3 Height 75.000 cm	Package 3 Height 75.0

Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	164.680 ka

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc	
②	Toxic Heavy Metal Free	
Ø	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information