Product data sheet

Specification





TeSys

LC1K

Contactor

Contactor, TeSys K, 3P, AC-3, It or eq to 440V 16A, 1 NO aux., 230VAC coil

LC1K1610P7

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 172.00 USD

Main Range

Product Or Component Type

Auxiliary Contact Composition

[Uimp] Rated Impulse Withstand

Overvoltage Category

Thermal Current

[Ith] Conventional Free Air

Irms Rated Making Capacity

Rated Breaking Capacity

Voltage

Device Short Name

Device Short Name	LUIK
Device Application	Control
Contactor Application	Motor control
Complementary	
Utilisation Category	AC-3
	AC-3e
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	16 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
	16 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Control Circuit Type	AC 50/60 Hz
[Uc] Control Circuit Voltage	230 V AC 50/60 Hz
Motor Power Kw	4 kW 220230 V AC 50/60 Hz AC-3
	7.5 kW 380415 V AC 50/60 Hz AC-3
	5.5 kW 440 V AC 50/60 Hz AC-3
	4 kW 690 V AC 50/60 Hz AC-3
	4 kW 220230 V AC 50/60 Hz AC-3e
	7.5 kW 380415 V AC 50/60 Hz AC-3e

1 NO

8 kV

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Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

5.5 kW 440 V AC 50/60 Hz AC-3e 4 kW 690 V AC 50/60 Hz AC-3e

20 A (at 140 °F (60 °C)) for power circuit

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

10 A (at 122 °F (50 °C)) for signalling circuit

160 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947



[Icw] Rated Short-Time Withstand Current	115 A 122 °F (50 °C) - 1 s for power circuit 105 A 122 °F (50 °C) - 5 s for power circuit 100 A 122 °F (50 °C) - 10 s for power circuit 75 A 122 °F (50 °C) - 30 s for power circuit 55 A 122 °F (50 °C) - 1 min for power circuit 50 A 122 °F (50 °C) - 3 min for power circuit 50 A 122 °F (50 °C) - >= 15 min for power circuit 25 A 122 °F (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 UL 508 Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-5-1 Signalling circuit 600 V UL 508 Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14
Insulation Resistance	> 10 MOhm for signalling circuit
Inrush Power In Va	30 VA (at 68 °F (20 °C))
Hold-In Power Consumption In Va	4.5 VA (at 68 °F (20 °C))
Heat Dissipation	1.3 W
Control Circuit Voltage Limits	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: >= 0.20 Uc (at <122 °F (50 °C))
Connections - Terminals	screw clamp terminals 1 0.000.01 in² (1.54 mm²)solid screw clamp terminals 1 0.000.01 in² (0.754 mm²)flexible without cable end screw clamp terminals 1 0.000.00 in² (0.342.5 mm²)flexible with cable end screw clamp terminals 2 0.000.01 in² (1.54 mm²)solid screw clamp terminals 2 0.000.01 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.000.00 in² (0.341.5 mm²)flexible with cable end
Maximum Operating Rate	3600 cyc/h
Auxiliary Contacts Type	Instantaneous 1 NO
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
Tightening Torque	7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals Philips No 2 7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm 7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals 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 EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Non Overlap Distance	0.02 in (0.5 mm)
Mechanical Durability	10 Mcycles
Electrical Durability	1.3 Mcycles 16 A AC-3 <= 440 V 1.3 Mcycles 16 A AC-3e <= 440 V

Mechanical Robustness	Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6
Height	2.28 in (58 mm)
Width	1.77 in (45 mm)
Depth	2.24 in (57 mm)
Net Weight	0.40 lb(US) (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 VDE 0106
Protective Treatment	TC IEC 60068 TC DIN 50016
Ambient Air Temperature For Operation	-13122 °F (-2550 °C)
Ambient Air Temperature For Storage	-58176 °F (-5080 °C)
Operating Altitude	6561.68 ft (2000 m) without derating
Flame Retardance	V1 conforming to UL 94

Ordering and shipping details

Category	US10I1222326
Discount Schedule	0112
Gtin	3389110509175
Returnability	No
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.77 in (4.500 cm)
Package 1 Width	2.36 in (6.000 cm)
Package 1 Length	2.56 in (6.500 cm)
Package 1 Weight	6.35 oz (179.900 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	50

Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	20.35 lb(US) (9.232 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	800
Package 3 Height	29.53 in (75.000 cm)
Package 3 Width	31.50 in (80.000 cm)
Package 3 Length	23.62 in (60.000 cm)
Package 3 Weight	343.28 lb(US) (155.708 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
Ø	Mercury Free	
②	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
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov