

# Product data sheet

Specifications



Contactor, TeSys K, 3P, AC-3, 1t or eq to 440V 6A, 1 NC aux., 110VAC coil

LC1K0601F7

**Product availability:** Stock - Normally stocked in distribution facility

## 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
[Ie] rated operational current	6 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 6 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	110 V AC 50/60 Hz
Motor power kW	1.5 kW 220...230 V AC 50/60 Hz AC-3 2.2 kW 380...415 V AC 50/60 Hz AC-3 3 kW 440/690 V AC 50/60 Hz AC-3 1.5 kW 220...230 V AC 50/60 Hz AC-3e 2.2 kW 380...415 V AC 50/60 Hz AC-3e 3 kW 440/690 V AC 50/60 Hz AC-3e 1.5 kW 220...230 V AC 50/60 Hz AC-4 2.2 kW 380...415 V AC 50/60 Hz AC-4 3 kW 440/690 V AC 50/60 Hz AC-4
Auxiliary contact composition	1 NC
[Uiimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A (at 140 °F (60 °C)) for power circuit 10 A (at 122 °F (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 220...230 V conforming to IEC 60947 110 A at 380...400 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 660...690 V conforming to IEC 60947

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

<b>[Icw] rated short-time withstand current</b>	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 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
<b>Associated fuse rating</b>	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
<b>Average impedance</b>	3 mOhm - Ith 20 A 50 Hz for power circuit
<b>[Ui] rated insulation voltage</b>	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
<b>Insulation resistance</b>	> 10 MOhm for signalling circuit
<b>Inrush power in VA</b>	30 VA (at 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	4.5 VA (at 68 °F (20 °C))
<b>Heat dissipation</b>	1.3 W
<b>Control circuit voltage limits</b>	Operational: 0.8...1.15 Uc (at <122 °F (50 °C)) Drop-out: >= 0.20 Uc (at <122 °F (50 °C))
<b>Connections - terminals</b>	screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 1 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 1 0.0005...0.004 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 2 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 2 0.0005...0.002 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end
<b>Maximum operating rate</b>	3600 cyc/h
<b>Auxiliary contacts type</b>	Instantaneous 1 NC
<b>Signalling circuit frequency</b>	<= 400 Hz
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>Minimum switching voltage</b>	17 V for signalling circuit
<b>Mounting Support</b>	Rail Plate
<b>Tightening torque</b>	7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals Philips No 2 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals flat Ø 6 mm 7.08...11.5 lbf.in (0.8...1.3 N.m) screw clamp terminals pozidriv No 2
<b>Operating time</b>	10...20 ms coil de-energisation and NO opening 10...20 ms coil energisation and NO closing
<b>Safety reliability level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Non overlap distance</b>	0.02 in (0.5 mm)
<b>Mechanical durability</b>	10 Mcycles
<b>Electrical durability</b>	1.3 Mcycles 6 A AC-3 <= 440 V 1.3 Mcycles 6 A AC-3e <= 440 V 0.05 Mcycles 36 A AC-4 <= 440 V

<b>Mechanical robustness</b>	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, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5...300 Hz IEC 60068-2-6
<b>Height</b>	2.3 in (58 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	2.2 in (57 mm)
<b>Net Weight</b>	0.40 lb(US) (0.18 kg)

## Environment

<b>Standards</b>	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ
<b>Product Certifications</b>	CB Scheme CCC UL CSA EAC CE UKCA
<b>IP degree of protection</b>	IP2X VDE 0106
<b>Protective treatment</b>	TC IEC 60068 TC DIN 50016
<b>Ambient Air Temperature for Storage</b>	-58...176 °F (-50...80 °C)
<b>Operating altitude</b>	6561.68 ft (2000 m) without derating
<b>Flame retardance</b>	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

## Ordering and shipping details

<b>Category</b>	US10I1222326
<b>Discount Schedule</b>	0I12
<b>GTIN</b>	3389110429374
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</b>	1
<b>Package 1 Height</b>	2.60 in (6.600 cm)
<b>Package 1 Width</b>	1.89 in (4.800 cm)
<b>Package 1 Length</b>	2.44 in (6.200 cm)
<b>Package weight(Lbs)</b>	6.314 oz (179.000 g)
<b>Unit Type of Package 2</b>	S02

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<b>Number of Units in Package 2</b>	50
<b>Package 2 Height</b>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	20.629 lb(US) (9.357 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	400
<b>Package 3 Height</b>	17.72 in (45.000 cm)
<b>Package 3 Width</b>	23.62 in (60.000 cm)
<b>Package 3 Length</b>	31.50 in (80.000 cm)
<b>Package 3 Weight</b>	183.733 lb(US) (83.340 kg)

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## Contractual warranty

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**Warranty** 18 months



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 >](#)

## Environmental footprint

Carbon footprint (kg CO<sub>2</sub> eq, Total Life cycle) **51**

Environmental Disclosure [Product Environmental Profile](#)

## Use Better

### Materials and Substances

Packaging made with recycled cardboard **Yes**

Packaging without single use plastic **Yes**

[EU RoHS Directive](#) **Compliant**

REACH Regulation [REACH Declaration](#)

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](#)**

## Use Again

### Repack and remanufacture

Circularity Profile [End of Life Information](#)

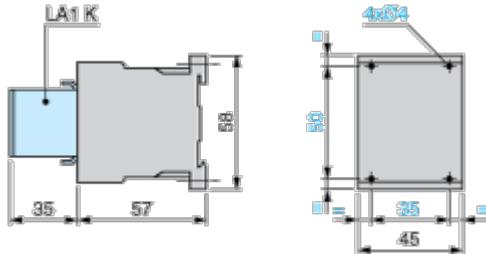
Take-back **No**

WEEE  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

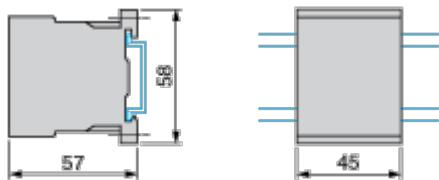
## Dimensions Drawings

## Dimensions

## Contactors LC1 K, LP1 K, LP4 K: Mounting on Panel



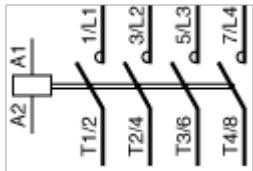
## Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)



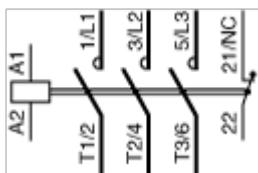
## Connections and Schema

Wiring

## 3-Pole Contactors: 3P + N/O



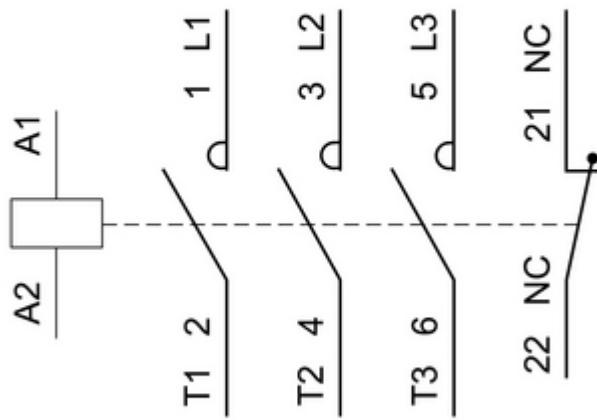
## 3-Pole Contactors: 3P + N/C



Technical Illustration

Wiring diagram

3P NC



## Offer Marketing Illustration

## Product benefits / Features

## TeSys K Contactors

## Flexibility



Designed with control voltages, low consumption, minimal noise levels, robust power connections, and a range of auxiliaries, and application-specific variants to meet diverse needs.

## Safety



It provides ultimate protection with IP20 finger-safe terminals, built-in NO/NC auxiliary contacts, and IEC-certified mirror and mechanically linked contacts for safety applications.



### Compact size



Up to 50% less volume is captured in your panels. One of the smallest contractors offerings in the market.

## Offer Marketing Illustration

## Product benefits / Features



## TeSys K

### Technical Benefits

- Built-in in all 3 pole versions: 1NO or 1NC
- Up to 4 more by add-on blocks
- Up to 16 A for motor control (AC3/ AC3E) and 20A for resistive load control (AC1)
- Available as single contactors, star-delta, and reversing combos, with a wealth of options and accessories
- Control Options:
  - AC: 24 to 660/690 V, standard or low-noise versions
  - DC: 12 to 250V, standard or low consumption (1.8 W) versions
- Thermal protection relays
- It Features specific versions for railway (TeSys S207) and electrodomestic (TeSys S335) applications

## Technical Illustration

## Assembly's dimensions

