

Contactor, TeSys K, 3P, AC-3, It or eq to 440V 6A, 1 NC aux., 48VAC coil

LC1K0601E7

Product availability: Non-Stock - Not 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

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 <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	48 V AC 50/60 Hz	
Motor power kW	1.5 kW 220230 V AC 50/60 Hz AC-3 2.2 kW 380415 V AC 50/60 Hz AC-3 3 kW 440/690 V AC 50/60 Hz AC-3 1.5 kW 220230 V AC 50/60 Hz AC-3e 2.2 kW 380415 V AC 50/60 Hz AC-3e 3 kW 440/690 V AC 50/60 Hz AC-3e 1.5 kW 220230 V AC 50/60 Hz AC-4 2.2 kW 380415 V AC 50/60 Hz AC-4 3 kW 440/690 V AC 50/60 Hz AC-4	
Auxiliary contact composition	1 NC	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[lth] conventional free air thermal current	mal 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 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	

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

[Icw] rated short-time withstand	90 A 122 °F (50 °C) - 1 s for power circuit	
current	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	
Associated fuse rating	25 A gG at <= 440 V for power circuit	
Associated fast fatting	25 A gG at < 440 V 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	
<u> </u>		
[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	
Combinal airceoid coalds are limite		
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 0.0020.006 in² (1.54 mm²)solid	
	screw clamp terminals 1 0.0010.006 in² (0.754 mm²)flexible without cable end	
	screw clamp terminals 1 0.00050.004 in² (0.342.5 mm²)flexible with cable end	
	screw clamp terminals 2 0.0020.006 in ² (1.54 mm ²)solid	
	screw clamp terminals 2 0.0010.006 in ² (0.754 mm ²)flexible without cable end	
	screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end	
Maximum operating rate	3600 cyc/h	
Auxiliary contacts type	Instantaneous 1 NC	
Auxiliary contacts type Signalling circuit frequency	Instantaneous 1 NC <= 400 Hz	
Signalling circuit frequency	<= 400 Hz	
Signalling circuit frequency Minimum switching current Minimum switching voltage	<= 400 Hz 5 mA for signalling circuit 17 V for signalling circuit	
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Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting Support	<= 400 Hz 5 mA for signalling circuit 17 V for signalling circuit Plate Rail 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals Phillips No 2	
Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting Support	<= 400 Hz 5 mA for signalling circuit 17 V for signalling circuit Plate Rail	
Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting Support Tightening torque	<= 400 Hz 5 mA for signalling circuit 17 V for signalling circuit Plate Rail 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals Philips No 2 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals pozidriv No 2	
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Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting Support Tightening torque Operating time Safety reliability level	<= 400 Hz 5 mA for signalling circuit 17 V for signalling circuit Plate Rail 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals Phillips No 2 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals pozidriv No 2 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting Support Tightening torque Operating time Safety reliability level Non overlap distance Mechanical durability	<= 400 Hz 5 mA for signalling circuit 17 V for signalling circuit Plate Rail 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals Philips No 2 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals flat Ø 6 mm 7.0811.5 lbf.in (0.81.3 N.m) screw clamp terminals pozidriv No 2 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1 0.02 in (0.5 mm) 10 Mcycles	
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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	2.3 in (58 mm)	
Width	1.8 in (45 mm)	
Depth	2.2 in (57 mm)	
Product 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
	IEC 60335-1:Clause 30.2
	IEC 60335-2-40:Annex JJ
	UL 60335-2-40:Annex JJ
Product Certifications	CB Scheme
	CCC
	UL
	CSA
	EAC
	CE
	UKCA
IP degree of protection	IP2X VDE 0106
Protective treatment	TC IEC 60068
	TC DIN 50016
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
	Requirement 2 conforming to NF F 16-101
	Requirement 2 conforming to NF F 16-102

Ordering and shipping details

Category	US10I1222326	
Discount Schedule	0112	
GTIN	3389110374735	
Returnability	No	
Country of origin	ID	

Packing Units

Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.60 in (6.600 cm)	
Package 1 Width	1.89 in (4.800 cm)	
Package 1 Length	2.44 in (6.200 cm)	
Package 1 Weight	6.279 oz (178.000 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	20.459 lb(US) (9.280 kg)

Contractual warranty

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 CO2 eq, Total Life cycle)	51
Environmental Disclosure	Product Environmental Profile

Use Better

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

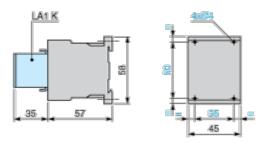
Use Again

○ 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.

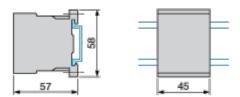
Dimensions Drawings

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)



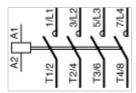
Product data sheet

LC1K0601E7

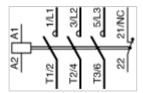
Connections and Schema

Wiring

3-Pole Contactors: 3P + N/O



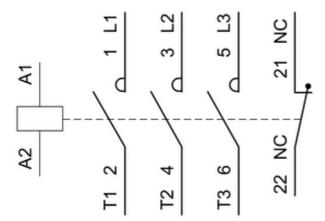
3-Pole Contactors: 3P + N/C



Technical Illustration

Wiring diagram

3P NC



Offer Marketing Illustration

Product benefits / Features

TeSys K

Technical Benefits



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 \$207) and electrodomestic (TeSys \$335) applications



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 provide ultimate protection with IP20 fingersafe 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 he smallest contactors offerings in the market

Technical Illustration

Assembly's dimensions

