#### Product data sheet Characteristics

## LC1K0601M7

TeSys K contactor , 3P , AC-3 <= 440 V 6 A , 1 NC aux., 220...230 V AC coil





#### Main

TeSys	
Contactor	
TeSys K	
LC1K	
Control	
Motor control	
	Contactor TeSys K LC1K Control

Complementary	
Utilisation category	AC-4 AC-3
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz Signalling circuit: <= 690 V AC 50/60 Hz
[le] rated operational current	6 A at <= 440 V AC AC-3 for power circuit
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	220230 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 V AC 50/60 Hz AC-3 3 KW at 480 V AC 50/60 Hz AC-3 3 KW at 500600 V AC 50/60 Hz AC-3 3 KW at 660690 V AC 50/60 Hz AC-3 1.5 KW at 400 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	20 A (at 50 °C) for power circuit 10 A (at 50 °C) for signalling 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 110 A AC for signalling 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

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherended as a substitute for and is not to be used for determining suitability or reliability of these products by specific base applications. It is the dourn arise and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

[Icw] 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  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 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 60947-5-1 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: 0.20.75 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
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
Mounting support	Plate Rail
Tightening torque	<ul> <li>1.3 N.M - on screw clamp terminals - with screwdriver Philips No 2</li> <li>1.3 N.M - on screw clamp terminals - with screwdriver flat Ø 6 mm</li> <li>1.3 N.M - on screw clamp terminals - with screwdriver pozidriv No 2</li> </ul>
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
Non overlap distance	0.5 Mm
Mechanical durability	10 Mcycles
Electrical durability	1.3 Mcycles 6 A AC-3 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
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Height	58 Mm

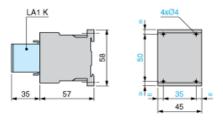


Depth	57 Mm
Net weight	0.18 Kg
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Environment	
Standards	BS 5424
	IEC 60947
	NF C 63-110 VDE 0660
Product certifications	CSA
	UL
	UKCA
IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to 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
Dooking Unite	
Packing Units Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	177.6 G
Package 1 Height	4.8 Cm
Package 1 width	6.2 Cm
Package 1 Length	6.5 Cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	9.141 Kg
Package 2 Height	15 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm
Package 3 Height	15 Cm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	₫ <sub>Yes</sub>
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
vvarianty	10 months

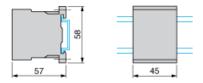
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#### **Dimensions**

## 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)

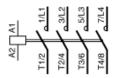


# Product data sheet Connections and Schema

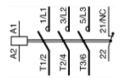
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Wiring

3-Pole Contactors: 3P + N/O



3-Pole Contactors: 3P + N/C



Product Life Status: Commercialised