

Contactor, TeSys K, 3P, AC-3/ AC-3e,440V 16A, aux. 1NC, 100V AC coil, screw clamp terminals

LC1K1601K7

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
Polos Description	AD.
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 <60 °C) at <= 440 V AC AC-3 for power circuit
•••	16 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	100 V AC 50/60 Hz
Motor Power Kw	4 kW at 220230 V AC 50/60 Hz AC-3
	7.5 kW at 380415 V AC 50/60 Hz AC-3
	5.5 kW at 440 V AC 50/60 Hz AC-3
	4 kW at 690 V AC 50/60 Hz AC-3
	4 kW at 220230 V AC 50/60 Hz AC-3e
	7.5 kW at 380415 V AC 50/60 Hz AC-3e
	5.5 kW at 440 V AC 50/60 Hz AC-3e
	4 kW at 690 V AC 50/60 Hz AC-3e
Auxiliary Contact Composition	1 NC
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air	20 A (at 60 °C) for power circuit
Thermal Current	10 A (at 50 °C) for signalling circuit
Irms Rated Making Capacity	160 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 440 V conforming to IEC 60947
	80 A at 500 V conforming to IEC 60947
	70 A at 660690 V conforming to IEC 60947

[Icw] Rated Short-Time Withstand	115 A 50 °C - 1 s for power circuit
Current	105 A 50 °C - 5 s for power circuit
	100 A 50 °C - 10 s for power circuit
	75 A 50 °C - 30 s for power circuit
	55 A 50 °C - 1 min for power circuit
	50 A 50 °C - 3 min for power circuit 25 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 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	Rail
	Plate
Tightening Torque	0.81.3 N.m - on screw clamp terminals Philips No 2
33	0.81.3 N.m - on screw clamp terminals 1 minps 140 2
	0.81.3 N.m - on screw clamp terminals pozidriv No 2
Operating Time	10. 20 ma coil do approiaction and NO appring
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
Non Overlan Distance	13849-1
Non Overlap Distance	0.5 mm
Mechanical Durability	10 Mcycles
Electrical Durability	1.3 Mcycles 16 A AC-3 at Ue <= 440 V 1.3 Mcycles 16 A AC-3e 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 Operation	-2550 °C
Ambient Air Temperature For Storage	-5080 °C
Operating Altitude	2000 m without derating
Flame Retardance	V1 conforming to UL 94

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.2 cm
Package 1 Width	4.8 cm
Package 1 Length	6.5 cm
Package 1 Weight	180.0 g

Contractual warranty

Warranty 18 months

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	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
Circularity Profile	End of Life Information