Specifications



## TeSys K contactor - 3P - AC-3 <= 440 V 16 A - 1 NO aux. - 220...230 V AC coil

LC1K1610M7

#### 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	
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	220230 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 NO	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal current	al 20 A (at 60 °C) for power circuit 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 current	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 mm <sup>2</sup> solid
	Screw clamp terminals 1 cable(s) 0.754 mm <sup>2</sup> flexible without cable end
	Screw clamp terminals 1 cable(s) 0.342.5 mm <sup>2</sup> flexible with cable end
	Screw clamp terminals 2 cable(s) 1.54 mm <sup>2</sup> solid
Maximum operating rate	Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end
Maximum operating rate Auxiliary contacts type	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 3600 cyc/h
	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 3600 cyc/h type instantaneous 1 NO
Auxiliary contacts type Signalling circuit frequency	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         3600 cyc/h         type instantaneous 1 NO         <= 400 Hz
Auxiliary contacts type Signalling circuit frequency Minimum switching current	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         3600 cyc/h         type instantaneous 1 NO         <= 400 Hz
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Auxiliary contacts type Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting support Tightening torque	Screw clamp terminals 2 cable(s) 1.54 mm²solid         Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end         3600 cyc/h         type instantaneous 1 NO         <= 400 Hz
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Auxiliary contacts type Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting support Tightening torque Operating time Safety reliability level Non overlap distance	Screw clamp terminals 2 cable(s) 1.54 mm²solid         Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end         3600 cyc/h         type instantaneous 1 NO         <= 400 Hz
Auxiliary contacts type Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting support Tightening torque Operating time Safety reliability level Non overlap distance Mechanical durability	Screw clamp terminals 2 cable(s) 1.54 mm²flexible without cable end         Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end         3600 cyc/h         type instantaneous 1 NO         <= 400 Hz
Auxiliary contacts type Signalling circuit frequency Minimum switching current Minimum switching voltage Mounting support Tightening torque Operating time Safety reliability level Non overlap distance	Screw clamp terminals 2 cable(s) 1.54 mm²solid         Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end         3600 cyc/h         type instantaneous 1 NO         <= 400 Hz

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 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	
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	

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 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	6.600 cm
Package 1 Width	6.200 cm
Package 1 Length	4.800 cm
Package 1 Weight	176.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.226 kg

#### **Contractual warranty**

Warranty

18 months

# Environmental Data

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.

#### How this information helps you >

🧭 Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	69
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

S Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	<b>REACh Declaration</b>
China RoHS Regulation	China RoHS declaration

#### **Use Again**

$\circlearrowright$ Repack and remanufacture	
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