## **Product datasheet**

Specification





TeSys

# TeSys K contactor - 3P - AC-3 <= 440 V 12 A - 1 NC aux. - 24 V AC coil

LC1K1201B7

#### Main Range

Range	TeSys
Product Or Component Type	Contactor
Device Short Name	LC1K
Device Application	Control
Contactor Application	Resistive load Motor control
Complementary	
Utilisation Category	AC-3
	AC-3e
	AC-1
	AC-4
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC <= 400 Hz
[co]	Signalling circuit: <= 690 V AC <= 400 Hz
[le] Rated Operational Current	12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
	12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
	20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit
Control Circuit Type	AC at 50/60 Hz
[Uc] Control Circuit Voltage	24 V AC 50/60 Hz
Motor Power Kw	3 kW at 220230 V AC 50/60 Hz AC-3
	5.5 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
	3 kW at 220230 V AC 50/60 Hz AC-3e
	5.5 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
	3 kW at 220230 V AC 50/60 Hz AC-4
	5.5 kW at 380415 V AC 50/60 Hz AC-4
	5.5 kW at 440 V AC 50/60 Hz AC-4
	4 kW at 690 V AC 50/60 Hz AC-4
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	144 A AC for power circuit conforming to IEC 60947
5 . 5	110 A AC for signalling circuit 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.

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
	- 107. 100 iii oo
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
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)
Control Circuit Voltage Limits	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
	type instantaneous 1 NC <= 400 Hz
Auxiliary Contacts Type	
Auxiliary Contacts Type Signalling Circuit Frequency	<= 400 Hz
Auxiliary Contacts Type Signalling Circuit Frequency Minimum Switching Current	<= 400 Hz  5 mA for signalling circuit  17 V for signalling circuit  1020 ms coil de-energisation and NO opening
Auxiliary Contacts Type  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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Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time	<= 400 Hz  5 mA for signalling circuit  17 V for signalling circuit  1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO
Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time	<= 400 Hz  5 mA for signalling circuit  17 V for signalling circuit  1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing  B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
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Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time  Safety Reliability Level  Non Overlap Distance	<= 400 Hz 5 mA for signalling circuit 17 V for signalling circuit 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing 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 0.5 mm
Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time  Safety Reliability Level  Non Overlap Distance  Mechanical Durability	<= 400 Hz 5 mA for signalling circuit 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing 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 0.5 mm 10 Mcycles 1.3 Mcycles 12 A AC-3 at Ue <= 440 V 1.3 Mcycles 12 A AC-3e at Ue <= 440 V
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Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time  Safety Reliability Level  Non Overlap Distance  Mechanical Durability	<= 400 Hz 5 mA for signalling circuit 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing 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 0.5 mm 10 Mcycles 1.3 Mcycles 12 A AC-3 at Ue <= 440 V 1.3 Mcycles 12 A AC-3e at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 690 V 0.02 Mcycles 72 A AC-4 at Ue <= 440 V Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27
Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time  Safety Reliability Level  Non Overlap Distance  Mechanical Durability  Electrical Durability	<= 400 Hz 5 mA for signalling circuit 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing 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 0.5 mm 10 Mcycles 1.3 Mcycles 12 A AC-3 at Ue <= 440 V 1.3 Mcycles 12 A AC-3e at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 690 V 0.02 Mcycles 72 A AC-4 at Ue <= 440 V
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Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time  Safety Reliability Level  Non Overlap Distance  Mechanical Durability  Electrical Durability  Mechanical Robustness	<= 400 Hz 5 mA for signalling circuit 1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing 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 0.5 mm 10 Mcycles 1.3 Mcycles 12 A AC-3 at Ue <= 440 V 1.3 Mcycles 12 A AC-3 at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 690 V 0.02 Mcycles 72 A AC-4 at Ue <= 440 V Shocks contactor closed, on X 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 X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6
Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Current  Minimum Switching Voltage  Operating Time  Safety Reliability Level  Non Overlap Distance  Mechanical Durability  Electrical Durability  Mechanical Robustness	<ul> <li>&lt;= 400 Hz</li> <li>5 mA for signalling circuit</li> <li>1020 ms coil de-energisation and NO opening</li> <li>1020 ms coil energisation and NO closing</li> <li>B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1</li> <li>B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1</li> <li>0.5 mm</li> <li>10 Mcycles</li> <li>1.3 Mcycles 12 A AC-3 at Ue &lt;= 440 V</li> <li>1.3 Mcycles 12 A AC-3e at Ue &lt;= 440 V</li> <li>0.3 Mcycles 20 A AC-1 at Ue &lt;= 690 V</li> <li>0.02 Mcycles 72 A AC-4 at Ue &lt;= 440 V</li> <li>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 opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X 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; 2 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6</li> </ul>

### **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 UKCA
Protective Treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
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

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.500 cm
Package 1 Width	6.000 cm
Package 1 Length	6.500 cm
Package 1 Weight	180.700 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	9.276 kg

## **Contractual warranty**

Warranty 18 months

## Sustainability Screen Premium

**Green Premium**<sup>TM</sup> **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-CO<sub>2</sub> 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

<b>⊘</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information