

# Reversing contactor, TeSys K, 3P, AC-3, It or eq to 440V 12 A, 1 NC, 24VAC coil

LC2K1201B7

Product availability: Stock - Normally stocked in distribution facility

## Main

Range	TeSys	
Product name	TeSys K	
Product or Component Type	Reversing contactor	
Device short name	LC2K	
Device Application	Control	
Contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-3e AC-4 AC-1	
Device presentation	Preassembled with reversing power busbar	
Poles description	3P	
power 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	12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 20 A (at <140 °F (60 °C)) at <= 690 V AC AC-1 for power circuit	
Motor power kW	3 kW 220230 V AC 50/60 Hz 5.5 kW 380415 V AC 50/60 Hz 5.5 kW 440 V AC 50/60 Hz 4 kW 690 V AC 50/60 Hz	
Control circuit type	AC 50/60 Hz	
[Uc] control circuit voltage	24 V AC 50/60 Hz	
Auxiliary contact composition	1 NC	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free air thermal current	20 A (at 140 °F (60 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit	
Irms rated making capacity	144 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	

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

[lcw] rated short-time withstand current	115 A 122 °F (50 °C) - 1 s for power circuit 105 A 122 °F (50 °C) - 5 s for power circuit 100 A 122 °F (50 °C) - 10 s for power circuit 75 A 122 °F (50 °C) - 30 s for power circuit	
	55 A 122 °F (50 °C) - 1 min for power circuit 50 A 122 °F (50 °C) - 3 min for power circuit	
	25 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	
	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 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 IL 508	
	Power circuit 600 V CSA C22.2 No 14	
	Signalling circuit 600 V CSA C22.2 No 14	
Electrical durability	1.3 Mcycles 12 A AC-3 <= 440 V	
	1.3 Mcycles 12 A AC-3e <= 440 V 0.3 Mcycles 20 A AC-1 <= 690 V	
	0.02 Mcycles 72 A AC-4 <= 440 V	
Interlocking type	Mechanical	
Mounting Support	Plate Rail	
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	
Connections - terminals	screw clamp terminals 1 0.0020.006 in <sup>2</sup> (1.54 mm <sup>2</sup> )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 in² (1.54 mm²)solid	
	screw clamp terminals 2 0.0010.006 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.00050.002 in² (0.341.5 mm²)flexible with cable end	
Tightening torque	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 $\emptyset$ 6 mm	
Operating time	1020 ms coil energisation and NO closing 1020 ms coil de-energisation and NO opening	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical durability	5 Mcycles	
Maximum operating rate	3600 cyc/h	
Complementary		
Control circuit voltage limits	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: 0.20.75 Uc (at <122 °F (50 °C))	
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
Auxiliary contacts 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
Non overlap distance	0.02 in (0.5 mm)
Insulation resistance	> 10 MOhm for signalling circuit

## **Environment**

IP degree of protection	IP20 VDE 0106	
Protective treatment	TC IEC 60068 TC DIN 50016	
Ambient air temperature for operation	-13122 °F (-2550 °C)	
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	
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	3.5 in (90 mm)	
Depth	2.2 in (57 mm)	
Net Weight	0.86 lb(US) (0.39 kg)	

# Ordering and shipping details

Category	US10I1222327
Discount Schedule	0112
GTIN	3389110789850
Returnability	Yes
Country of origin	FR

# **Packing Units**

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Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.36 in (6.0 cm)
Package 1 Width	2.56 in (6.5 cm)
Package 1 Length	3.62 in (9.2 cm)
Package weight(Lbs)	12.9 oz (367.0 g)
Unit Type of Package 2	S02

Number of Units in Package 2	25
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	20.92 lb(US) (9.49 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)	120
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 Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

## Offer Marketing Illustration

## **Product benefits / Features**

# TeSys K

## Reversing 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

## Offer Marketing Illustration

#### **Product benefits / Features**



## **Product data sheet**

## LC2K1201B7

**Technical Illustration** 

## Assembly's dimensions

