Product data sheet

Specification





Reversing contactor, TeSys K, 3P, AC-3, It or eq to 440V 12 A, 1 NC, 110VAC coil

LC2K1201F7

Product availability: Stock - Normally stocked in distribution facility

Price*: 191.00 USD

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	110 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.

[Icw] 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) - 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 UL 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 0.000.01 in² (1.54 mm²)solid screw clamp terminals 1 0.000.01 in² (0.754 mm²)flexible without cable end screw clamp terminals 1 0.000.00 in² (0.342.5 mm²)flexible with cable end screw clamp terminals 2 0.000.01 in² (1.54 mm²)solid screw clamp terminals 2 0.000.01 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.000.00 in² (0.341.5 mm²)flexible with cable end
Tightening Torque	7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals Philips No 2 7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals flat \emptyset 6 mm 7.0811.51 lbf.in (0.81.3 N.m) screw clamp terminals pozidriv No 2
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	2.28 in (58 mm)	
Width	3.54 in (90 mm)	
Depth	2.24 in (57 mm)	
Net Weight	0.86 lb(US) (0.39 kg)	

Ordering and shipping details

Category	US10I1222327	
Discount Schedule	0112	
Gtin	3389110789867	
Returnability	Yes	
Country Of Origin FR		

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.36 in (6.0 cm)
Package 1 Width	2.44 in (6.2 cm)
Package 1 Length	3.62 in (9.2 cm)
Package 1 Weight	12.73 oz (361.0 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	20.89 lb(US) (9.476 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

②	Reach Free Of Svhc	
Ø	Toxic Heavy Metal Free	
Ø	Mercury Free	
	Rohs Exemption Information	Yes

Certifications & Standards

REACh Declaration
Compliant
EU RoHS Declaration
China RoHS declaration
Pro-active China RoHS declaration (out of China RoHS legal scope)
Product Environmental Profile
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
End of Life Information
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