Product data sheet Characteristics

LC1K1210B72

TeSys K contactor - 3P - AC-3 <= 440 V 12 A - 1 NO aux. - 24 V AC coil

Product availability: Non-Stock - Not normally stocked in distribution facility





Main

Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	‡
Device short name	LC1K	
Device application	Control	
Contactor application	Motor control Resistive load	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10

Complementary

AC-1 AC-3 AC-4 3P 3 NO Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz	<u>9.</u>
AC-4 3P 3 NO Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz	
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Power circuit 690 V AC 50/60 Hz Signalling circuit <= 690 V AC 50/60 Hz	<u></u>
Signalling circuit <= 690 V AC 50/60 Hz	, Ç
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20 A 422 °F (F0 °C)) <= 440 \/ AC AC 4 power size it	9
20 A 122 °F (50 °C)) <= 440 V AC AC-1 power circuit	di interesting
12 A<= 440 V AC AC-3 power circuit	<u>.</u>
16 A 158 °F (70 °C)) 690 V AC AC-1 power circuit	
AC 50/60 Hz	
24 V AC 50/60 Hz	
4 kW 480 V AC 50/60 Hz AC-3	
4 kW 500600 V AC 50/60 Hz AC-3	<u></u> 2
4 kW 660690 V AC 50/60 Hz AC-3	; 2
2.2 kW 400 V AC 50/60 Hz AC-4	
3 kW 220230 V AC 50/60 Hz AC-3	
5.5 kW 380415 V AC 50/60 Hz AC-3	Tris Acoustations
5.5 kW 440 V AC 50/60 Hz AC-3	Ë
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	AC 50/60 Hz 24 V AC 50/60 Hz 4 kW 480 V AC 50/60 Hz AC-3 4 kW 500600 V AC 50/60 Hz AC-3 4 kW 660690 V AC 50/60 Hz AC-3 2.2 kW 400 V AC 50/60 Hz AC-4 3 kW 220230 V AC 50/60 Hz AC-3 5.5 kW 380415 V AC 50/60 Hz AC-3

[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	
[lth] conventional free air thermal current	20 A 122 °F (50 °C) power circuit 10 A 122 °F (50 °C) signalling circuit
Irms rated making capacity	110 A AC signalling circuit IEC 60947 144 A AC power circuit NF C 63-110 144 A AC power circuit IEC 60947
Rated breaking capacity	110 A 440 V IEC 60947 80 A 500 V IEC 60947 70 A 660690 V IEC 60947
[lcw] rated short-time withstand current	115 A 122 °F (50 °C) - 1 s power circuit 105 A 122 °F (50 °C) - 5 s power circuit 100 A 122 °F (50 °C) - 10 s power circuit 75 A 122 °F (50 °C) - 30 s power circuit 55 A 122 °F (50 °C) - 1 min power circuit 50 A 122 °F (50 °C) - 3 min power circuit 50 A 122 °F (50 °C) - 3 min power circuit 80 A - 1 s signalling circuit 90 A - 500 ms signalling circuit 110 A - 100 ms signalling circuit 25 A 122 °F (50 °C) - >= 15 min power circuit
Associated fuse rating	25 A gG <= 440 V power circuit 25 A aM power circuit 10 A gG signalling circuit IEC 60947 10 A gG signalling circuit VDE 0660
Average impedance	3 mOhm - Ith 20 A 50 Hz 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
Insulation resistance	> 10 MOhm signalling circuit
Inrush power in VA	30 VA 68 °F (20 °C))
Hold-in power consumption in VA	4.5 VA 68 °F (20 °C))
Heat dissipation	1.3 W
Control circuit voltage limits	Operational 0.81.15 Uc 122 °F (50 °C)) Drop-out 0.20.75 Uc 122 °F (50 °C))
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
Maximum operating rate	3600 cyc/h
Coil technology	Built-in bidirectional peak limiting diode suppressor
Auxiliary contacts type	Instantaneous 1 NO
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Mounting support	Rail Plate
Tightening torque	11.51 lbf.in (1.3 N.m) screw clamp terminals Philips No 2 11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm
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 EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Non overlap distance	0.02 in (0.5 mm)
Mechanical durability	10 Mcycles
Electrical durability	0.3 Mcycles 20 A AC-1 <= 440 V 1.3 Mcycles 12 A AC-3 <= 440 V
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	1.77 in (45 mm)
Depth	2.24 in (57 mm)
Net weight	0.40 lb(US) (0.18 kg)

Environment

.80 °C)
n) without
F 16-101
F 16-102
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Ordering and shipping details

Category	22326 - CTR,K-LINE,AC,OPEN,NONREV
Discount Schedule	l12
GTIN	00785901851547
Returnability	No
Country of origin	FR

Offer Sustainability

Sustainable offer status	Green Premium product	
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 Carcinogen harm. For more information go to www.p65warnings.ca.gov	
REACh Regulation	REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.	
Environmental Disclosure	Product Environmental Profile	
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.	

Contractual warranty

Warranty	18 mo	nths		