Product data sheet Characteristics

LC1K0910D7

Contactor, TeSys K, 3P, AC-3, It or eq to 440V 9A, 1 NO aux., 42VAC coil

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

Price*: 75.00 USD

TeSys

Contactor



Main Range

Product or Component Type

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
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	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 9 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
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	42 V AC 50/60 Hz
Motor power kW	2.2 KW 220230 V AC 50/60 Hz AC-3 4 KW 380415 V AC 50/60 Hz AC-3 4 KW 440/690 V AC 50/60 Hz AC-3 2.2 KW 220230 V AC 50/60 Hz AC-3e 4 KW 380415 V AC 50/60 Hz AC-3e 4 KW 440/690 V AC 50/60 Hz AC-3e 2.2 KW 220230 V AC 50/60 Hz AC-3e 4 KW 380415 V AC 50/60 Hz AC-4 4 KW 380415 V AC 50/60 Hz AC-4 4 KW 380415 V AC 50/60 Hz AC-4
Auxiliary contact composition	1 NO
[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	110 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 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947 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
[lcw] rated short-time withstand current	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 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
Insulation resistance	> 10 MOhm for signalling circuit
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
Control circuit voltage limits	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: >= 0.20 Uc (at <122 °F (50 °C))
Connections - terminals	Screw clamp terminals 1 0.0020.006 in² (1.54 mm²)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
Maximum operating rate	3600 Cyc/H
Auxiliary contacts type	Instantaneous 1 NO
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 MA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
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 ln (0.5 mm)
Mechanical durability	10 Mcycles
Electrical durability	1.3 Mcycles 9 A AC-3 <= 440 V 1.3 Mcycles 9 A AC-3e <= 440 V 0.16 Mcycles 20 A AC-1 <= 690 V 0.02 Mcycles 54 A AC-4 <= 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	2.3 In (58 mm)
Width	1.8 ln (45 mm)
Depth	2.2 ln (57 mm)

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
	IEC 60335-1:Clause 30.2
	IEC 60335-2-40:Annex JJ
	UL 60335-2-40:Annex JJ
Product Certifications	CB Scheme[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EAC[RE-
	TURN]CE[RETURN]UKCA
Protective treatment	TC IEC 60068
	TC DIN 50016
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

Ordering and shipping details

Category	US10I1222326
Discount Schedule	0112
GTIN	3389110490237
Returnability	No
Country of origin	FR

Packing Units

PCE
FOL
1
2.44 ln (6.200 cm)
2.56 In (6.500 cm)
1.89 ln (4.800 cm)
6.314 Oz (179.000 g)
S02
50
5.91 ln (15.000 cm)
11.81 ln (30.000 cm)
15.75 ln (40.000 cm)
20.435 Lb(US) (9.269 kg)

Environmental data

Packaging without single use plastic	Yes
Packaging made with recycled cardboard	Yes
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
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes
Sustainable packaging	Yes
RoHS exemption information	₽¥Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile



Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following speci- fic waste collection and never end up in rubbish bins.
Take-back	No
Carbon footprint (kg CO2 eq, Total Life cycle)	54

Contractual warranty

Warranty	40
vvarrantv	18 months
vvairancy	TO ITION(II)

Product Life Status : Commercialised