Product data sheet Characteristics

LC1K0610J7

Contactor application

TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NO aux. - 12 V AC coil





Main		
Range	TeSys	
Product or component type	Contactor	
Product name	TeSys K	
Device short name	LC1K	
Device application	Control	

Motor control

Com	_		
1 Ami	Δ	mar	ntory.
COIL	σ		ıtaı v

Utilisation category	AC-4 AC-3
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	6 A<= 440 V AC AC-3 power circuit
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	12 V AC 50/60 Hz
Motor power kW	1.5 KW 220230 V AC 50/60 Hz AC-3 2.2 KW 380415 V AC 50/60 Hz AC-3 3 KW 440 V AC 50/60 Hz AC-3 3 KW 480 V AC 50/60 Hz AC-3 3 KW 500600 V AC 50/60 Hz AC-3 3 KW 660690 V AC 50/60 Hz AC-3 1.5 kW 400 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 122 °F (50 °C) power circuit 10 A 122 °F (50 °C) signalling circuit
Irms rated making capacity	110 A AC power circuit NF C 63-110 110 A AC power circuit IEC 60947 110 A AC signalling circuit IEC 60947
Rated breaking capacity	110 A 415 V IEC 60947 110 A 440 V IEC 60947 80 A 500 V IEC 60947 110 A 220230 V IEC 60947 110 A 380400 V IEC 60947 70 A 660690 V IEC 60947
[lcw] rated short-time withstand current	90 A 122 °F (50 °C) - 1 s power circuit 85 A 122 °F (50 °C) - 5 s power circuit 80 A 122 °F (50 °C) - 10 s power circuit 60 A 122 °F (50 °C) - 30 s power circuit 45 A 122 °F (50 °C) - 1 min power circuit 40 A 122 °F (50 °C) - 3 min power circuit 40 A 122 °F (50 °C) - 3 min power circuit 20 A 122 °F (50 °C) ->= 15 min power circuit 80 A - 1 s signalling circuit 90 A - 500 ms signalling circuit 110 A - 100 ms signalling 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 conforming to 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 for 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 in ² (0.754 mm ²)flexible without cable end Screw clamp terminals 1 0.000.00 in ² (0.342.5 mm ²)flexible with cable end	
	Screw clamp terminals 1 0.000.00 in (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	
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	
Mounting support	Rail Plate	
Tightening torque	11.51 Lbf.ln (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 conforming to EN/ISO	
	13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO	
	13849-1	
Non overlap distance	0.02 in (0.5 mm)	
Mechanical durability	10 Mcycles	
Electrical durability	1.3 Mcycles 6 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 closed, on X axis 6 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)	
Maximum Width	1.77 in (45 mm)	
Depth	2.24 in (57 mm)	
Net Weight	0.40 lb(US) (0.18 kg)	
Environment		
Standards	BS 5424	
	IEC 60947 NF C 63-110	

DO 5404
BS 5424
IEC 60947
NF C 63-110
VDE 0660
CSA
UL
IP2x VDE 0106
TC IEC 60068
TC DIN 50016
-58176 °F (-5080 °C)

Operating altitude	6561.68 ft (2000 m) without derating	
Flame retardance	V1 conforming to UL 94	
	Requirement 2 NF F 16-101	
	Requirement 2 NF F 16-102	
Ordering and chinning details		
Ordering and shipping details		
Category	22326 - CTR,K-LINE,AC,OPEN,NONREV	

Category	22326 - CTR,K-LINE,AC,OPEN,NONREV	
Discount Schedule	l12	
GTIN	03389110487619	
Nbr. of units in pkg.	1	
Package weight(Lbs)	1 lb(US) (0.45 kg)	
Returnability	No	
Country of origin	FR	

Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	2.56 in (6.5 cm)	
Package 1 width	2.44 in (6.2 cm)	
Package 1 Length	1.89 in (4.8 cm)	

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 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	
Mercury free	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 specific waste collection and never end up in rubbish bins.	

Contractual warranty

Contractual warranty		
Warranty	18 months	