

TeSys K contactor , 3P , AC-3 \leq 440 V 12 A , 1 NO aux. , 42 V AC coil

LC1K12105D72

! Discontinued

Main

Range Of Product	TeSys K		
Range	TeSys		
Product Name	TeSys K		
Device Application	Control		
Product Or Component Type	Contactor		
Device Short Name	LC1K		
Utilisation Category	AC-1 AC-4 AC-3		
Coil Technology	Built-in bidirectional peak limiting diode suppressor		
Poles Description	3P		
Pole Contact Composition	3 NO		
[le] Rated Operational Current	20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit 12 A at <= 440 V AC AC-3 for power circuit 16 A (at <70 °C) at 690 V AC AC-1 for power circuit		
[Uc] Control Circuit Voltage	type instantaneous 1 NO		
Signalling Circuit Frequency	<= 400 Hz		
Non Overlap Distance	0.5 mm		

Complementary

Contactor Application	Motor control Resistive load			
Auxiliary Contact Composition	1 NO			
Control Circuit Voltage Limits	Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C)			
Control Circuit Type	AC at 50/60 Hz			
[Uc] Control Circuit Voltage	42 V AC 50/60 Hz			
Connections - Terminals	Solder pins - busbar cross section: 1.5 x 0.9 mm			
Electrical Durability	0.3 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 12 A AC-3 at Ue <= 440 V			

Mechanical Robustness	Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Vibrations contactor closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6			
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			
Ip Degree Of Protection	IP2X conforming to VDE 0106			
Protective Treatment	TC conforming to IEC 60068 TC conforming to DIN 50016			
[Ui] Rated Insulation Voltage	Power circuit: 600 V conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 600 V conforming to UL 508 Power circuit: 600 V conforming to CSA C22.2 No 14 Signalling circuit: 600 V conforming to CSA C22.2 No 14			
[Uimp] Rated Impulse Withstand Voltage	8 kV			
Overvoltage Category	III			
Mounting Support	Printed circuit boards			
Product Certifications	CB Scheme CCC UL CSA EAC CE UKCA			
Ambient Air Temperature For Storage	-5080 °C			
Operating Altitude	2000 m without derating			
[Ue] Rated Operational Voltage	Power circuit: 690 V AC 50/60 Hz Signalling circuit: <= 690 V AC 50/60 Hz			
[Ith] Conventional Free Air Thermal Current	20 A (at 50 °C) for power circuit 10 A (at 50 °C) for signalling circuit			
Irms Rated Making Capacity	110 A AC for signalling circuit conforming to IEC 60947 144 A AC for power circuit conforming to NF C 63-110 144 A AC for power 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			
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			
nrush Power In Va	30 VA (at 20 °C)			
Hold-In Power Consumption In Va	4.5 VA (at 20 °C)			
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			
Mechanical Durability	10 Mcycles			

Maximum Operating Rate	3600 cyc/h
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V for signalling circuit
Insulation Resistance	> 10 MOhm for signalling circuit
Height	58 mm
Width	45 mm
Depth	57 mm
Net Weight	0.18 kg
Compatibility Code	LC1K

Environment

Motor Power Kw	4 kW at 480 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz 3 kW at 220230 V AC 50/60 Hz 5.5 kW at 380415 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz
[Icw] Rated Short-Time Withstand Current	115 A 50 °C - 1 s for power circuit 105 A 50 °C - 5 s for power circuit 100 A 50 °C - 10 s for power circuit 75 A 50 °C - 30 s for power circuit 55 A 50 °C - 1 min for power circuit 50 A 50 °C - 3 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 25 A 50 °C ->= 15 min for power circuit
Heat Dissipation	1.3 W
Flame Retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months	