

TeSys K contactor , 3P , AC-3 <= 440 V 9 A , 1 NO aux. , 115 V AC coil

LC7K09105FE7

! Discontinued

Main

Range Of Product	TeSys K	
Range	TeSys	
Product Name	TeSys K	
Device Application	Control	
Product Or Component Type	Contactor	
Device Short Name	LC7K	
Utilisation Category	AC-3 AC-4 AC-1	
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 9 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: 0.851.1 Uc (at <50 °C) Drop-out: 0.10.75 Uc (at <50 °C)	
Control Circuit Type	AC at 50/60 Hz silent	
[Uc] Control Circuit Voltage	115 V AC 50/60 Hz	
Connections - Terminals	Solder pins - busbar cross section: 1.5 x 0.9 mm	
Electrical Durability	0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 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 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, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to IEC 60068-2-6

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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	
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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 power circuit conforming to NF C 63-110	
	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 415 V conforming to IEC 60947	
Training Capacity	110 A at 440 V conforming to IEC 60947	
	80 A at 500 V conforming to IEC 60947	
	110 A at 220230 V conforming to IEC 60947	
	110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947	
	70 A at 000090 V contonning to IEG 00947	
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	
Inrush Power In Va	3 VA (at 20 °C)	
Hold-In Power Consumption In Va	3 VA (at 20 °C)	
Operating Time	3040 ms coil energisation and NO closing	
Chaire time	30 ms coil de-energisation and NO opening	
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	0.225 kg
Compatibility Code	LC7K

Environment

Motor Power Kw	4134/-44003/400500011-		
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		
	2.2 kW at 220230 V AC 50/60 Hz		
	4 kW at 380415 V AC 50/60 Hz		
	4 kW at 440 V AC 50/60 Hz		
[Icw] Rated Short-Time Withstand	90 A 50 °C - 1 s for power circuit		
Current	85 A 50 °C - 5 s for power circuit		
	80 A 50 °C - 10 s for power circuit		
	60 A 50 °C - 30 s for power circuit		
	45 A 50 °C - 1 min for power circuit		
	40 A 50 °C - 3 min for power circuit		
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	20 A 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		
Heat Dissipation	3 W		
Flame Retardance	V1 conforming to UL 94		
	Requirement 2 conforming to NF F 16-101		
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Packing Units

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

Contractual warranty

Warranty	18 months	
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