## Product data sheet Characteristics

# LC1K0910P7S335

TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NO aux. - 230 V AC coil





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Range	TeSys	
Product or component type	Contactor	ž Ę
Product name	TeSys K	9
Device short name	LC1K	ŭ 
Device application	Control	
Contactor application	Resistive load Motor control	in I

#### Complementary

Complementary		
Utilisation category	AC-1 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	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	
Control circuit type	AC at 50/60 Hz	:
[Uc] control circuit voltage	230 V AC 50/60 Hz	
Motor power kW	2.2 kW at 220230 V AC 50/60 Hz for 3 phases motors 4 kW at 380415 V AC 50/60 Hz for 3 phases motors 4 kW at 440 V AC 50/60 Hz for 3 phases motors 4 kW at 480 V AC 50/60 Hz for 3 phases motors 4 kW at 500600 V AC 50/60 Hz for 3 phases motors 4 kW at 500600 V AC 50/60 Hz for 3 phases motors 4 kW at 660690 V AC 50/60 Hz for 3 phases motors 0.55 kW at 115 V AC 50/60 Hz for 1 phase motors 1.1 kW at 220 V AC 50/60 Hz for 1 phase motors	
Auxiliary contact composition	1 NO	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	

[lth] 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 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
[lcw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit 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 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
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
[Ui] rated insulation voltage	Power 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 Power circuit: 750 V conforming to VDE 0110 group C Power circuit: 690 V conforming to BS 5424 Power circuit: 690 V conforming to NF C 20-040 Power circuit: 690 V conforming to IEC 60947 Signalling circuit: 690 V conforming to IEC 60947 Signalling circuit: 690 V conforming to BS 5424 Signalling circuit: 600 V conforming to VDE 0110 group C
Insulation resistance	> 10 MOhm for signalling circuit
Inrush power in VA	30 VA (at 20 °C)
Hold-in power consumption in VA	4.5 VA (at 20 °C)
Heat dissipation	1.3 W
Control circuit voltage limits	Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C)
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end
Maximum operating rate	3600 cyc/h
Auxiliary contacts type	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	0.8 N.m - on screw clamp terminals - with screwdriver Philips No 2 0.8 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
	1020 ms coil de-energisation and NO opening
Operating time	1020 ms coil energisation and NO closing
Operating time  Safety reliability level	· · ·
	1020 ms coil energisation and NO closing B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Safety reliability level	1020 ms coil energisation and NO closing  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 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
Height	58 mm
Width	45 mm
Depth	57 mm
Net weight	0.235 kg

### Environment

Standards	BS 5424
	IEC 60947
	NF C 63-110
	VDE 0660
	EN 60335-1
Product certifications	CSA
	UL
IP degree of protection	IP20 conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068
	TC conforming to DIN 50016
Ambient air temperature for storage	-5080 °C
Operating altitude	2000 m without
Flame retardance	V1 conforming to UL 94
	Requirement 2 conforming to NF F 16-101
	Requirement 2 conforming to NF F 16-102

#### Offer Sustainability

Sustainable offer status	Green Premium product
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