Product data sheet Characteristics

LC1K0610P7

TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NO aux. - 230 V AC coil



TSI Code: 386106961 Price*: 24.26 GBP



Main

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

Complementary

Utilisation category	AC-3	
	AC-4	
Poles description	3P	
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 at <= 440 V AC AC-3 for power circuit	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	230 V AC 50/60 Hz	
Motor power kW	1.5 KW at 220230 V AC 50/60 Hz AC-3 2.2 KW at 380415 V AC 50/60 Hz AC-3 3 KW at 440 V AC 50/60 Hz AC-3 3 KW at 480 V AC 50/60 Hz AC-3 3 KW at 500600 V AC 50/60 Hz AC-3 3 KW at 660690 V AC 50/60 Hz AC-3 1.5 KW at 400 V AC 50/60 Hz AC-4	
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 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: 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
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	1.3 N.M - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.M - on screw clamp terminals - with screwdriver flat \varnothing 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	0.5 Mm
Mechanical durability	10 Mcycles
Electrical durability	1.3 Mcycles 6 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	
Height	58 Mm	
Width	45 Mm	
Depth	57 Mm	
Product weight	0.18 Kg	

Environment

BS 5424 IEC 60947 NF C 63-110 VDE 0660	
UL CSA	
IP2x conforming to VDE 0106	
TC conforming to IEC 60068 TC conforming to DIN 50016	
-5080 °C	
2000 m without derating	
V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102	
	IEC 60947 NF C 63-110 VDE 0660 UL CSA IP2x conforming to VDE 0106 TC conforming to IEC 60068 TC conforming to DIN 50016 -5080 °C 2000 m without derating V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	178 G
Package 1 Height	5 Cm
Package 1 width	6 Cm
Package 1 Length	6.5 Cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	9.141 Kg
Package 2 Height	15 Cm
Package 2 width	30 Cm
Package 2 Length	40 Cm
Unit Type of Package 3	P06
Number of Units in Package 3	800
Package 3 Weight	154.256 Kg
Package 3 Height	75 Cm
Package 3 width	80 Cm
Package 3 Length	60 Cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes

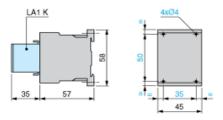


Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	☑ China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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Contractual warranty	
Warranty	18 months

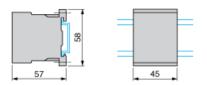
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Dimensions

Contactors LC1 K, LP1 K, LP4 K: Mounting on Panel



Contactors LC1 K, LP1 K, LP4 K: Mounting on Rail AM1 DP200 or AM1 DE200 (35 mm)

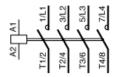


Product data sheet Connections and Schema

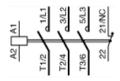
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Wiring

3-Pole Contactors: 3P + N/O



3-Pole Contactors: 3P + N/C



Product Life Status: Commercialised