Product data sheet Characteristics

LC2K1210G7 TeSys K reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 120 V AC coil



Range of product	TeSys K
Product or component type	Reversing contactor
Device short name	LC2K
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	<= 690 V AC 50/60 Hz for signalling circuit 690 V AC 50/60 Hz for power circuit
[le] rated operational current	16 A (<= 70 °C) at 690 V AC AC-1 for power circuit 20 A (<= 50 °C) at <= 440 V AC AC-1 for power cir- cuit 12 A at <= 440 V AC AC-3 for power circuit
Motor power kW	5.5 kW at 440 V AC 50/60 Hz 5.5 kW at 380415 V AC 50/60 Hz 3 kW at 220230 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
Control circuit voltage	120 V AC 50/60 Hz
Auxiliary contact com- position	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[lth] conventional free air thermal current	10 A at <= 50 °C for signalling circuit 20 A at <= 50 °C for power circuit
Irms rated making ca- pacity	144 A at 690 V AC for power circuit conforming to IEC 60947 144 A at 690 V AC for power circuit conforming to NF C 63-110 110 A AC for signalling circuit conforming to IEC 60947
Rated breaking capac- ity	70 A at 660690 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 110 A at 440 V conforming to IEC 60947
[Icw] rated short-time withstand current	25 A <= 50 °C >= 15 s power circuit 50 A <= 50 °C 3 min power circuit 55 A <= 50 °C 1 min power circuit 75 A <= 50 °C 30 s power circuit 100 A <= 50 °C 10 s power circuit 105 A <= 50 °C 5 s power circuit 115 A <= 50 °C 1 s power circuit 110 A 100 ms signalling circuit 90 A 500 ms signalling circuit 80 A 1 s signalling circuit
Associated fuse rating	10 A gG for signalling circuit conforming to VDE 0660 10 A gG for signalling circuit conforming to IEC 60947 25 A aM for power circuit 25 A gG at <= 440 V for power circuit

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Apr 1, 2012



Average impedance 3 mOhm at 50 Hz - Ith 20 A for power [Ui] rated insulation voltage 600 V for signalling circuit conformin 699 V for signalling circuit conformin 60947-5-1 690 V for signalling circuit conformin 60947-4-1 690 V for signalling circuit conforming to 600 V for signalling circuit conforming to 600 V for signalling circuit conforming to 600 V for power circuit conforming to 700 V for 700 V	
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Mechanical durability 5 Mcycles	1
Operating rate 3600 cyc/h	

Complementary

Complementary		
Control circuit voltage limits	0.20.75 Uc at <= 50 °C drop-out 0.81.15 Uc at <= 50 °C operational	
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	
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	
Non overlap distance	0.5 mm	
Insulation resistance	> 10 MOhm for signalling circuit	



Environment

Liwionnen	
IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to DIN 50016
	TC conforming to IEC 60068
Ambient air temperature for operation	-2550 °C
Ambient air temperature for storage	-5080 °C
Operating altitude	2000 m without derating derating in temperature
Flame retardance	Requirement 2 conforming to NF F 16-102
	Requirement 2 conforming to NF F 16-101
	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor opened 2 Gn, 5300 Hz IEC 60068-2-6
	Vibrations contactor closed 4 Gn, 5300 Hz IEC 60068-2-6
	Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27
	Shocks contactor opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27
	Shocks contactor opened, on X axis 6 Gn for 11 ms IEC 60068-2-27
	Shocks contactor closed, on Z axis 15 Gn for 11 ms IEC 60068-2-27
	Shocks contactor closed, on Y axis 15 Gn for 11 ms IEC 60068-2-27
	Shocks contactor closed, on X axis 10 Gn for 11 ms IEC 60068-2-27
Height	58 mm
Width	90 mm
Depth	57 mm
Product weight	0.39 kg

RoHS compliance

RoHS EUR status	Compliant
RoHS EUR conformity date	0706

