# Product data sheet Characteristics

# LC2K1201G7

Main

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



# Range of product Product or component type Device short name LC2K Contactor application Wotor 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

	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-	1 NC

position	
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III

air thermal current	20 A at <= 50 °C for power circuit
Irms rated making capacity	144 A at 690 V AC for power circuit conforming to IEC 60947

10 A at <= 50 °C for signalling circuit

pacity	IEC 00947		
	144 A at 690 V AC for power circuit conforming to		
	NF C 63-110		
	110 A AC for signalling circuit conforming to IEC		

NF C 63-110
110 A AC for signalling circuit conforming to IEC
60947

	110 A at 440 V conforming to IEC 60947	
[lcw] rated short-time	25 A <= 50 °C >= 15 s power circuit	
withstand current	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	
	90 A 1 c cianallina circuit	

ou A 1 S Signalling Circuit			
Associated fuse rating	10 A gG for signalling circuit conforming to VDE		
	0000		

0660			
10 A gG fo	r signa	lling circ	uit conforming to IEC
60947			
05 4 146		,	

25 A aM for power circuit 25 A gG at <= 440 V for power circuit

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Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit
[Ui] rated insulation voltage	600 V for signalling circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-5-1 690 V for signalling circuit conforming to IEC 60947-4-1 690 V for power circuit conforming to IEC 60947-4-1 600 V for signalling circuit conforming to CSA 22-2 No 14 600 V for power circuit conforming to CSA 22-2 No 14 600 V for power circuit conforming to UL 508
Electrical durability	1.3 Mcycles 12 A AC-3 at Ue <= 440 V 0.3 Mcycles 20 A AC-1 at Ue <= 440 V
Interlocking type	Mechanical
Mounting support	Plate Rail
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL
Connections - terminals	Screw clamp terminals 2 cable(s) 0.341.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 1.54 mm² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.342.5 mm² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 0.754 mm² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 1.54 mm² - cable stiffness: solid
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver flat $\varnothing$ 6 mm 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing
Safety reliability level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Mechanical durability	5 Mcycles
Operating rate	3600 cyc/h

#### 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 NC	
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

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

