Product datasheet

Specifications





TeSys K changeover contactor -4P - AC-1 <= 440 V 20 A - 120 V AC coil

LC2K12004G7

() Discontinued on: 10 Oct 2020

① Discontinued

Main

IVIAIII		
Range	TeSys	
Product name	TeSys K	
product or component type	Changeover contactor	
Device short name	LC2K	
Device application	Control	
contactor application	Resistive load	
Utilisation category	AC-1	
Device presentation	Preassembled with reversing power busbar	
poles description	4P	
power pole contact composition	4 NO	
[Ue] rated operational voltage	Power 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 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	120 V AC 50/60 Hz	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[Ith] conventional free 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 NF C 63-110 144 A at 690 V AC for power circuit conforming to IEC 60947	
Rated breaking capacity	110 A at 440 V conforming to IEC 60947 80 A at 500 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947	
[Icw] rated short-time withstand current	115 A 50 °C - 1 s for power circuit 105 A 50 °C - 5 s for power circuit 100 A 50 °C - 10 s for power circuit 75 A 50 °C - 30 s for power circuit 55 A 50 °C - 1 min for power circuit 50 A 50 °C - 3 min for power circuit 25 A 50 °C - >= 15 min for power circuit	
Associated fuse rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit	
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 Power circuit: 600 V conforming to CSA C22.2 No 14	

Electrical durability	0.3 Mcycles 20 A AC-1 at Ue <= 440 V	
Interlocking type	Mechanical	
mounting support	Rail Plate	
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	
Product certifications	CB Scheme CCC UL CSA EAC CE UKCA	
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm ² solid Screw clamp terminals 1 cable(s) 0.754 mm ² flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm ² flexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm ² solid Screw clamp terminals 2 cable(s) 0.754 mm ² flexible without cable end Screw clamp terminals 2 cable(s) 0.3415 mm ² flexible with cable end	
Tightening torque	0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm	
Operating time	1020 ms coil energisation and NO closing 1020 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	5 Mcycles	
Maximum operating rate	3600 cyc/h	

Complementary

Control circuit voltage limits	Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C)	
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	

Environment

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 operation	-2550 °C	
ambient air temperature for storage	-5080 °C	
Operating altitude	2000 m without derating	
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102	

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 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
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
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
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
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 closed: 4 Gn, 5300 Hz conforming to IEC 60068-2-6
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Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6
58 mm
90 mm
57 mm
0.38 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6 cm
Package 1 Width	6.2 cm
Package 1 Length	9.2 cm
Package 1 Weight	390 g

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Yes