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Main

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Range	TeSys
Product name	TeSys K
Product or component type	Contactors
Device short name	LC7K
Contactors application	Resistive load
Utilisation category	AC-1
Poles description	4P
Pole contact composition	4 NO
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit
[Ie] rated operational current	20 A ($\leq 50\text{ }^{\circ}\text{C}$) at $\leq 440\text{ V AC AC-1}$ for power circuit 16 A ($\leq 70\text{ }^{\circ}\text{C}$) at 690 V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz silent
Control circuit voltage	220...230 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A at $\leq 50\text{ }^{\circ}\text{C}$ for power 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
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 220...230 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947
[Icw] rated short-time withstand current	90 A $\leq 50\text{ }^{\circ}\text{C}$ 1 s power circuit 85 A $\leq 50\text{ }^{\circ}\text{C}$ 5 s power circuit 80 A $\leq 50\text{ }^{\circ}\text{C}$ 10 s power circuit 60 A $\leq 50\text{ }^{\circ}\text{C}$ 30 s power circuit 45 A $\leq 50\text{ }^{\circ}\text{C}$ 1 min power circuit 40 A $\leq 50\text{ }^{\circ}\text{C}$ 3 min power circuit 20 A $\leq 50\text{ }^{\circ}\text{C}$ $\geq 15\text{ s}$ power circuit
Associated fuse rating	25 A gG at $\leq 440\text{ V}$ for power circuit 25 A aM for power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A for power circuit
[Ui] rated insulation voltage	690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14
Electrical durability	0.18 Mcycles 20 A AC-1 at Ue $\leq 440\text{ V}$
Mounting support	Plate Rail
Standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
Product certifications	CSA UL

Connections - terminals	Screw clamp terminals 1 cable(s) 1.5...4 mm ² - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.75...4 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.34...2.5 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.5...4 mm ² - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.75...4 mm ² - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.34...1.5 mm ² - cable stiffness: flexible - with cable end
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 Ø 6 mm
Operating time	30 ms coil de-energisation and NO opening 30...40 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
Mechanical durability	10 Mcycles
Operating rate	3600 cyc/h

Complementary Hide

Control circuit voltage limits	0.85...1.1 Uc at <= 50 °C operational 0.1...0.75 Uc at <= 50 °C drop-out
Inrush power in VA	3 VA at 20 °C
Hold-in power consumption in VA	3 VA at 20 °C
Heat dissipation	3 W
Signalling circuit frequency	<= 400 Hz

Environment Hide

IP degree of protection	IP2x conforming to VDE 0106
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016
Ambient air temperature for operation	-25...50 °C
Ambient air temperature for storage	-50...80 °C
Operating altitude	2000 m without derating in temperature
Flame retardance	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102
Mechanical robustness	Shocks contactor closed, on X axis 10 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 Z axis 15 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 opened, on Y axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis 10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed 4 Gn, 5...300 Hz IEC 60068-2-6 Vibrations contactor opened 2 Gn, 5...300 Hz IEC 60068-2-6
Height	58 mm
Width	45 mm
Depth	57 mm
Product weight	0.225 kg

Offer Sustainability Hide

Sustainable offer status	Not Green Premium product
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RoHS (date code: YYWW)

Compliant - since 0825 - Schneider Electric declaration of conformity

REACH

Reference not containing SVHC above the threshold

Product end of life instructions

Need no specific recycling operations

Contractual warranty

Period

18 months

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