



# LP4K0610EW3

TeSys K contactor - 3P(3 NO) - AC-3 - <= 440 V 6 A - 48 V DC coil



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## Main

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<b>Range</b>	TeSys
<b>Product name</b>	TeSys K
<b>Product or component type</b>	Contacteur
<b>Device short name</b>	LP4K
<b>Contacteur application</b>	Motor control
<b>Utilisation category</b>	AC-3 AC-4
<b>Poles description</b>	3P
<b>Pole contact composition</b>	3 NO
<b>[Ue] rated operational voltage</b>	690 V AC 50/60 Hz for power circuit <= 690 V AC 50/60 Hz for signalling circuit
<b>[Ie] rated operational current</b>	6 A at <= 440 V AC AC-3 for power circuit
<b>Motor power kW</b>	3 kW at 440 V AC 50/60 Hz 3 kW at 500...600 V AC 50/60 Hz 3 kW at 660...690 V AC 50/60 Hz 1.5 kW at 220...230 V AC 50/60 Hz 2.2 kW at 380...415 V AC 50/60 Hz 3 kW at 480 V AC 50/60 Hz
<b>Control circuit type</b>	DC low consumption
<b>Control circuit voltage</b>	48 V DC
<b>Auxiliary contact composition</b>	1 NO
<b>[Uimp] rated impulse withstand voltage</b>	8 kV
<b>Overvoltage category</b>	III
<b>[Ith] conventional free air thermal current</b>	20 A at <= 50 °C for power circuit 10 A at <= 50 °C for signalling circuit
<b>Irms rated making capacity</b>	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
<b>Rated breaking capacity</b>	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
<b>[Icw] rated short-time withstand current</b>	90 A <= 50 °C 1 s power circuit 85 A <= 50 °C 5 s power circuit 80 A <= 50 °C 10 s power circuit 60 A <= 50 °C 30 s power circuit 45 A <= 50 °C 1 min power circuit 40 A <= 50 °C 3 min power circuit 80 A 1 s signalling circuit 90 A 500 ms signalling circuit 110 A 100 ms signalling circuit 20 A <= 50 °C >= 15 s power circuit
<b>Associated fuse rating</b>	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
<b>Average impedance</b>	3 mOhm at 50 Hz - Ith 20 A for power circuit

<b>[Ui] rated insulation voltage</b>	690 V for power circuit conforming to IEC 60947-4-1 600 V for power circuit conforming to UL 508 690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for power circuit conforming to UL 508 600 V for power circuit conforming to CSA C22.2 No 14 600 V for signalling circuit conforming to CSA C22.2 No 14
<b>Electrical durability</b>	1.3 Mcycles 6 A AC-3 at Ue ≤ 440 V
<b>Mounting support</b>	Plate Rail
<b>Standards</b>	BS 5424 IEC 60947 NF C 63-110 VDE 0660
<b>Product certifications</b>	CSA UL
<b>Connections - terminals</b>	Screw clamp terminals 1 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 1 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0.34...2.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 1.5...4 mm <sup>2</sup> - cable stiffness: solid Screw clamp terminals 2 cable(s) 0.75...4 mm <sup>2</sup> - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0.34...1.5 mm <sup>2</sup> - cable stiffness: flexible - with cable end
<b>Tightening torque</b>	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
<b>Operating time</b>	10...20 ms coil de-energisation and NO opening 30...40 ms coil energisation and NO closing
<b>Safety reliability level</b>	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
<b>Mechanical durability</b>	30 Mcycles
<b>Operating rate</b>	3600 cyc/h

## Complementary

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<b>Coil technology</b>	Built-in bidirectional peak limiting diode suppressor
<b>Control circuit voltage limits</b>	0.7...1.30 Uc at ≤ 50 °C operational 0.1...0.7 Uc at ≤ 50 °C drop-out
<b>Inrush power in W</b>	1.8 W at 20 °C
<b>Hold-in power consumption in W</b>	1.8 W at 20 °C
<b>Heat dissipation</b>	1.8 W
<b>Auxiliary contacts type</b>	Type instantaneous (1 NO)
<b>Minimum switching current</b>	5 mA for signalling circuit
<b>Minimum switching voltage</b>	17 V for signalling circuit
<b>Non overlap distance</b>	0.5 mm
<b>Insulation resistance</b>	> 10 MOhm for signalling circuit


## Environment

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<b>IP degree of protection</b>	IP2x conforming to VDE 0106
<b>Protective treatment</b>	TC conforming to IEC 60068 TC conforming to DIN 50016
<b>Ambient air temperature for operation</b>	-25...50 °C
<b>Ambient air temperature for storage</b>	-50...80 °C
<b>Operating altitude</b>	2000 m without derating in temperature
<b>Flame retardance</b>	V1 conforming to UL 94 Requirement 2 conforming to NF F 16-101 Requirement 2 conforming to NF F 16-102

<b>Mechanical robustness</b>	Shocks contactor closed, on Z axis 15 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 Shocks contactor opened, on X axis 10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis 6 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis 15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis 10 Gn for 11 ms IEC 60068-2-27
<b>Height</b>	58 mm
<b>Width</b>	45 mm
<b>Depth</b>	57 mm
<b>Product weight</b>	0.235 kg

### Offer Sustainability Hide

<b>Sustainable offer status</b>	Green Premium product
<b>RoHS (date code: YYWW)</b>	Compliant - since 0825 - Schneider Electric declaration of conformity
<b>REACH</b>	Reference not containing SVHC above the threshold
<b>Product environmental profile</b>	Available  <a href="#">download Product environmental</a>
<b>Product end of life instructions</b>	Need no specific recycling operations

### Contractual warranty Hide

<b>Period</b>	18 months
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