



## Main

Range	TeSys
Product or component type	Contacteur
Product name	TeSys K
Device short name	LP4K
Device application	Control
Contacteur application	Resistive load

## Complementary

Utilisation category	AC-1
Poles description	4P
Pole contact composition	2 NO + 2 NC
System Voltage	690 V AC 50/60 Hz power circuit
[Ie] rated operational current	20 A ( $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ )) at $\leq 440$ V AC AC-1 power circuit 16 A ( $\leq 158^{\circ}\text{F}$ ( $70^{\circ}\text{C}$ )) at 690 V AC AC-1 power circuit
Control circuit type	DC low consumption
[Uc] control circuit voltage	24 V DC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A at $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) power circuit
Irms rated making capacity	110 A AC power circuit conforming to NF C 63-110 110 A AC 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 $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) 1 s power circuit 85 A $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) 5 s power circuit 80 A $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) 10 s power circuit 60 A $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) 30 s power circuit 45 A $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) 1 min power circuit 40 A $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) 3 min power circuit 20 A $\leq 50^{\circ}\text{C}$ $\geq 15$ min power circuit
Associated fuse rating	25 A gG at $\leq 440$ V power circuit 25 A aM power circuit
Average impedance	3 mOhm at 50 Hz - Ith 20 A power circuit
[Ui] rated insulation voltage	690 V power circuit conforming to IEC 60947-4-1 600 V power circuit conforming to UL 508 600 V power circuit conforming to CSA C22.2 No 14
Inrush power in W	1.8 W at $68^{\circ}\text{F}$ ( $20^{\circ}\text{C}$ )
Hold-in power consumption in W	1.8 W at $68^{\circ}\text{F}$ ( $20^{\circ}\text{C}$ )
Heat dissipation	1.8 W
Control circuit voltage limits	0.7...1.30 Uc at $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) operational 0.1...0.7 Uc at $\leq 122^{\circ}\text{F}$ ( $50^{\circ}\text{C}$ ) drop-out
Connections - terminals	Screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> ) - cable stiffness: solid Screw clamp terminals 1 cable(s) 0...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Screw clamp terminals 1 cable(s) 0...0 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end Screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (1.5...4 mm <sup>2</sup> ) - cable stiffness: solid

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	Screw clamp terminals 2 cable(s) 0...0.01 in <sup>2</sup> (0.75...4 mm <sup>2</sup> ) - cable stiffness: flexible - without cable end Screw clamp terminals 2 cable(s) 0...0 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> ) - cable stiffness: flexible - with cable end
Operating rate	3600 cyc/h
Coil technology	Built-in bidirectional peak limiting diode suppressor
Mounting support	Plate Rail
Tightening torque	11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver Philips No 2 11.5 lbf.in (1.3 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm
Operating time	10...20 ms coil de-energisation and NO opening 25...35 ms coil energisation and NC opening 30...40 ms coil energisation and NO closing 15...25 ms coil de-energisation and NC 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	30 Mcycles
Electrical durability	0.18 Mcycles 20 A AC-1 at Ue ≤ 440 V
Mechanical robustness	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
Height	2.28 in (58 mm)
Width	1.77 in (45 mm)
Depth	2.24 in (57 mm)
Product weight	0.52 lb(US) (0.235 kg)

## Environment

standards	BS 5424 IEC 60947 NF C 63-110 VDE 0660
product certifications	CSA UL
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	-13...122 °F (-25...50 °C)
ambient air temperature for storage	-58...176 °F (-50...80 °C)
operating altitude	6561.68 ft (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

## Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0825 - Schneider Electric declaration of conformity	Compliant - since 0825 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

## Contractual warranty

Warranty period	18 months
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