



Main

Range of product	TeSys K
Range	TeSys
Product name	TeSys K
Product or component type	Reversing contactor
Device short name	LP2K
Contactor application	Motor control
Utilisation category	AC-4 AC-3
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	690 V AC 50/60 Hz for power circuit <= 690 V AC 50/60 Hz for signalling circuit
[Ie] rated operational current	6 A at <= 440 V AC AC-3 for power circuit
Motor power kW	3 kW at 480 V AC 50/60 Hz 2.2 kW at 380...415 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 3 kW at 440 V AC 50/60 Hz 1.5 kW at 220...230 V AC 50/60 Hz
Control circuit type	DC standard
Control circuit voltage	24 V DC
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] conventional free air thermal current	20 A at <= 50 °C for power circuit 10 A at <= 50 °C for signalling circuit
Irms rated making capacity	110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947 110 A AC for power circuit conforming to NF C 63-110
Rated breaking capacity	80 A at 500 V conforming to IEC 60947

	110 A at 440 V conforming to IEC 60947 70 A at 660...690 V conforming to IEC 60947 110 A at 220...230 V conforming to IEC 60947 110 A at 415 V conforming to IEC 60947 110 A at 380...400 V conforming to IEC 60947
[Icw] rated short-time withstand current	20 A $\leq 50\text{ }^{\circ}\text{C} \geq 15\text{ s}$ power circuit 60 A $\leq 50\text{ }^{\circ}\text{C} \geq 30\text{ s}$ power circuit 90 A $\leq 50\text{ }^{\circ}\text{C} \geq 1\text{ s}$ power circuit 90 A 500 ms signalling circuit 85 A $\leq 50\text{ }^{\circ}\text{C} \geq 5\text{ s}$ power circuit 80 A 1 s signalling circuit 80 A $\leq 50\text{ }^{\circ}\text{C} \geq 10\text{ s}$ power circuit 110 A 100 ms signalling circuit 40 A $\leq 50\text{ }^{\circ}\text{C} \geq 3\text{ min}$ power circuit 45 A $\leq 50\text{ }^{\circ}\text{C} \geq 1\text{ min}$ power circuit
Associated fuse rating	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 25 A gG at $\leq 440\text{ V}$ 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 60947-4-1 690 V for signalling circuit conforming to IEC 60947-4-1 690 V for signalling circuit conforming to IEC 60947-5-1 600 V for signalling circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to CSA C22.2 No 14 600 V for power circuit conforming to UL 508 600 V for signalling circuit conforming to UL 508
Electrical durability	1.3 Mcycles 6 A AC-3 at $U_e \leq 440\text{ V}$
Interlocking type	Mechanical
Mounting support	Plate Rail
Standards	VDE 0660 BS 5424 NF C 63-110 IEC 60947
Product certifications	UL CSA
Connections - terminals	Screw clamp terminals 2 cable(s) 0.34...1.5 mm ² - cable stiffness: flexible - with cable end Screw clamp terminals 1 cable(s) 1.5...4 mm ² - cable stiffness: solid 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 1 cable(s) 0.75...4 mm ² - cable stiffness: flexible - without cable end
Tightening torque	1.3 N.m - on screw clamp terminals - with screwdriver flat $\varnothing 6\text{ mm}$ 1.3 N.m - on screw clamp terminals - with screwdriver Philips No 2
Operating time	30...40 ms coil energisation and NO closing 10 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
Operating rate	3600 cyc/h

Complementary

Control circuit voltage limits	0.8...1.15 U_c at $\leq 50\text{ }^{\circ}\text{C}$ operational 0.1...0.75 U_c at $\leq 50\text{ }^{\circ}\text{C}$ drop-out
Inrush power in W	3 W at $20\text{ }^{\circ}\text{C}$
Hold-in power consumption in W	3 W at $20\text{ }^{\circ}\text{C}$
Heat dissipation	3 W
Auxiliary contacts type	Type instantaneous 1 NO
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Non overlap distance	0.5 mm
Insulation resistance	$> 10\text{ MOhm}$ for signalling circuit

Compatibility code	LP2K
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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	-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 16-102 Requirement 2 conforming to NF F 16-101
Mechanical robustness	Shocks contactor closed, on Y 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 opened, on Z axis 10 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 X axis 15 Gn for 11 ms IEC 60068-2-27
Height	58 mm
Width	90 mm
Depth	57 mm
Product weight	0.48 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0706 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold
Product environmental profile	Available End of life manual
Product end of life instructions	Available

Contractual warranty

Warranty period	18 months
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