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Main

Range	TeSys
Product name	TeSys K
Product or component type	Reversing contactor
Device short name	LP5K
Device application	Control
Contactor application	Motor control Resistive load
Utilisation category	AC-4 AC-1 AC-3
Device presentation	Preassembled with reversing power busbar
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz Signalling circuit: ≤ 690 V AC 50/60 Hz
[Ie] rated operational current	20 A 122 °F (50 °C) ≤ 440 V AC AC-1 power circuit 16 A 158 °F (70 °C) 690 V AC AC-1 power circuit 12 A ≤ 440 V AC AC-3 power circuit
Motor power kW	4 KW 480 V AC 50/60 Hz 4 KW 500...600 V AC 50/60 Hz 4 KW 660...690 V AC 50/60 Hz 3 KW 220...230 V AC 50/60 Hz 5.5 KW 380...415 V AC 50/60 Hz 5.5 kW 440 V AC 50/60 Hz
Control circuit type	DC low consumption
[Uc] 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 122 °F (50 °C) power circuit 10 A 122 °F (50 °C) signalling circuit
Irms rated making capacity	110 A AC signalling circuit IEC 60947 144 A AC power circuit NF C 63-110 144 A AC power circuit IEC 60947
Rated breaking capacity	110 A 440 V IEC 60947 80 A 500 V IEC 60947 70 A 660...690 V IEC 60947
[Icw] rated short-time withstand current	115 A 122 °F (50 °C) - 1 s power circuit 105 A 122 °F (50 °C) - 5 s power circuit 100 A 122 °F (50 °C) - 10 s power circuit 75 A 122 °F (50 °C) - 30 s power circuit 55 A 122 °F (50 °C) - 1 min power circuit 50 A 122 °F (50 °C) - 3 min power circuit 80 A - 1 s signalling circuit 90 A - 500 ms signalling circuit 110 A - 100 ms signalling circuit 25 A 122 °F (50 °C) - ≥ 15 min power circuit
Associated fuse rating	25 A gG ≤ 440 V power circuit 25 A aM power circuit 10 A gG signalling circuit IEC 60947 10 A gG signalling circuit VDE 0660
Average impedance	3 mOhm - Ith 20 A 50 Hz power circuit
[Ui] rated insulation voltage	Power circuit 600 V UL 508 Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-5-1 Signalling circuit 600 V UL 508 Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14

Electrical durability	0.3 Mcycles 20 A AC-1 <= 440 V 1.3 Mcycles 12 A AC-3 <= 440 V
Interlocking type	Mechanical
Mounting support	Plate Rail
Standards	IEC 60947 NF C 63-110 VDE 0660 BS 5424
Product certifications	UL CSA
Connections - terminals	Screw clamp terminals 1 0.00...0.01 in ² (1.5... 4 mm ²)solid Screw clamp terminals 1 0.00...0.01 in ² (0.75... 4 mm ²)flexible without cable end Screw clamp terminals 1 0.00...0.00 in ² (0.34... 2.5 mm ²)flexible with cable end Screw clamp terminals 2 0.00...0.01 in ² (1.5... 4 mm ²)solid Screw clamp terminals 2 0.00...0.01 in ² (0.75... 4 mm ²)flexible without cable end Screw clamp terminals 2 0.00...0.00 in ² (0.34... 1.5 mm ²)flexible with cable end
Tightening torque	11.51 Lbf.in (1.3 N.m) screw clamp terminals Philips No 2 11.51 lbf.in (1.3 N.m) screw clamp terminals flat Ø 6 mm
Operating time	10...20 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 EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	5 Mcycles
Maximum operating rate	3600 cyc/h

Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	Operational 0.7...1.30 U _c 122 °F (50 °C)) Drop-out 0.1...0.7 U _c 122 °F (50 °C))
Inrush power in W	1.8 W 68 °F (20 °C))
Hold-in power consumption in W	1.8 W 68 °F (20 °C)
Heat dissipation	1.8 W
Auxiliary contacts type	Type instantaneous 1 NO
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non overlap distance	0.02 in (0.5 mm)
Insulation resistance	> 10 MOhm for signalling circuit

Environment

IP degree of protection	IP20 VDE 0106
Protective treatment	TC IEC 60068 TC 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	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

Mechanical robustness	Shocks contactor closed, on Z axis: 15 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, 5...300 Hz conforming to IEC 60068-2-6 Vibrations contactor opened: 2 Gn, 5...300 Hz conforming to 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	3.54 in (90 mm)
Depth	2.24 in (57 mm)
Net Weight	1.08 lb(US) (0.49 kg)

Ordering and shipping details

Category	22322 - CTR,K-LINE,DC,OPEN,REV
Discount Schedule	I12
GTIN	00785901791232
Nbr. of units in pkg.	1
Package weight(Lbs)	0.98 lb(US) (0.44 kg)
Returnability	Yes
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Package 1 Height	2.36 in (6 cm)
Package 1 width	2.56 in (6.5 cm)
Package 1 Length	3.66 in (9.3 cm)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Weight	20.52 lb(US) (9.306 kg)
Package 2 Height	5.91 in (15 cm)
Package 2 width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACH free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Contractual warranty

Warranty	18 months
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