Product data sheet

Specifications





Reversing contactor, TeSys K, 3P, AC-3, It or eq to 440V 9A, 1 NC, 48VDC coil

LP5K0901EW3

! Discontinued on: Jan 23, 2021

① Discontinued

Main

Range	TeSys
Product Name	TeSys K
Product Or Component Type	Reversing contactor
Device Short Name	LP5K
Device Application	Control
Contactor Application	Resistive load Motor control
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
[le] Rated Operational Current	20 A (at <122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit 16 A (at <158 °F (70 °C)) at 690 V AC AC-1 for power circuit 9 A at <= 440 V AC AC-3 for power circuit
Motor Power Kw	2.2 kW 220230 V AC 50/60 Hz 4 kW 380415 V AC 50/60 Hz 4 kW 440 V AC 50/60 Hz 4 kW 480 V AC 50/60 Hz 4 kW 500600 V AC 50/60 Hz 4 kW 660690 V AC 50/60 Hz
Control Circuit Type	DC low consumption
[Uc] Control Circuit Voltage	48 V DC
Auxiliary Contact Composition	1 NC
[Uimp] Rated Impulse Withstand Voltage	8 kV
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	20 A (at 122 °F (50 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling 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 110 A AC for signalling circuit conforming to IEC 60947

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.



	3600 cyc/h	
Mechanical Durability Maximum Operating Rate	5 Mcycles	
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	
Operating Time	1020 ms coil de-energisation and NO opening 3040 ms coil energisation and NO closing	
Fightening 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 \varnothing 6 mm	
Connections - Terminals	screw clamp terminals 1 0.000.01 in² (1.54 mm²)solid screw clamp terminals 1 0.000.01 in² (0.754 mm²)flexible without cable end screw clamp terminals 1 0.000.00 in² (0.342.5 mm²)flexible with cable end screw clamp terminals 2 0.000.01 in² (1.54 mm²)solid screw clamp terminals 2 0.000.01 in² (0.754 mm²)flexible without cable end screw clamp terminals 2 0.000.01 in² (0.341.5 mm²)flexible with cable end	
	UL CSA EAC CE UKCA	
Product Certifications	NF C 63-110 CB Scheme CCC	
Standards	VDE 0660 BS 5424 IEC 60947	
Mounting Support	Rail Plate	
Interlocking Type	Mechanical	
Electrical Durability	0.18 Mcycles 20 A AC-1 <= 440 V 1.3 Mcycles 9 A AC-3 <= 440 V	
	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	
Average Impedance [Ui] Rated Insulation Voltage	3 mOhm - Ith 20 A 50 Hz for power circuit Power circuit 600 V UL 508	
Avanaga Impadanaa	10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660	
Associated Fuse Rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit	
	40 A 122 F (50 G) = 5 min for power circuit 80 A - 1 s for signalling circuit 90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit 20 A 122 °F (50 °C) - >= 15 min for power circuit	
[Icw] Rated Short-Time Withstand Current	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit	
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 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947	

Complementary

Coil Technology Built-in bidirectional peak limiting diode suppressor

Control Circuit Voltage Limits	Operational: 0.71.30 Uc (at <122 °F (50 °C)) Drop-out: 0.10.7 Uc (at <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	Instantaneous 1 NC
Minimum Switching Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V for 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	-13122 °F (-2550 °C)	
Ambient Air Temperature For Storage	-58176 °F (-5080 °C)	
Operating Altitude	6561.68 ft (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 axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6 Shocks contactor opened, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on X axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis10 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	112	
Gtin	3389110501674	
Returnability	No	
Country Of Origin	FR	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.36 in (6 cm)
Package 1 Width	2.44 in (6.2 cm)
Package 1 Length	3.62 in (9.2 cm)

Package 1 Weight

1.08 lb(US) (0.49 kg)

Contractual warranty

Warranty

18 months



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Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc	
②	Toxic Heavy Metal Free	
9	Mercury Free	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
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