Product data sheet

Specifications





Reversing contactor, TeSys K, 3P, AC-3, It or eq to 440V 6A, 1 NO, 24VDC coil

LP5K06105BW3

! Discontinued on: Jul 12, 2021

① Discontinued

Main

B	
Range	TeSys
Product Name	TeSys K
Product Or Component Type	Reversing contactor
Device Short Name	LP5K
Device Application	Control
Contactor Application	Motor control
Utilisation Category	AC-4 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	6 A at <= 440 V AC AC-3 for power circuit
Motor Power Kw	1.5 kW 220230 V AC 50/60 Hz 2.2 kW 380415 V AC 50/60 Hz 3 kW 440 V AC 50/60 Hz 3 kW 480 V AC 50/60 Hz 3 kW 500600 V AC 50/60 Hz 3 kW 660690 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 (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
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

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

[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 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
Associated Fuse Rating	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
Average Impedance	3 mOhm - Ith 20 A 50 Hz for 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	1.3 Mcycles 6 A AC-3 <= 440 V
Interlocking Type	Mechanical
Mounting Support	Plate Rail
Standards	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1 JIS C8201-4-1
Product Certifications	CB Scheme CCC UL CSA EAC CE UKCA
Connections - Terminals	solder pins 1.5 x 0.9 mm
Operating Time	1020 ms coil de-energisation and NO opening 3040 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

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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 NO	
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 MOhan fan ainmallian ainmailt
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	3389110500851	
Returnability	No	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	2.56 in (6.5 cm)	
Package 1 Width	3.54 in (9 cm)	
Package 1 Length	2.36 in (6 cm)	
Package 1 Weight	17.50 oz (496 g)	

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
Circularity Profile	End of Life Information