Product data sheet

Specifications



TeSys K reversing contactor , 3P , AC-3 <= 440 V 9 A , 1 NO , 12 V DC coil

LP5K09105JW3

(!) Discontinued

Main

Wall	
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
[le] Rated Operational Current	20 A (at <50 °C) at <= 440 V AC AC-1 for power circuit 16 A (at <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 at 220230 V AC 50/60 Hz 4 kW at 380415 V AC 50/60 Hz 4 kW at 440 V AC 50/60 Hz 4 kW at 480 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz
Control Circuit Type	DC low consumption
[Uc] Control Circuit Voltage	12 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 NF C 63-110 110 A AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947

Maximum Operating Rate	3600 cyc/h
Mechanical Durability	5 Mcycles
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
Operating Time	1020 ms coil de-energisation and NO opening 3040 ms coil energisation and NO closing
Connections - Terminals	Solder pins - busbar cross section: 1.5 x 0.9 mm
	EAC CE UKCA
	UL CSA
Product Certifications	CB Scheme CCC
	NF C 63-110 BS 5424 VDE 0660
Standards	IEC 60947
Nounting Support	Rail Plate
nterlocking Type	Mechanical
ectrical Durability	0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 at Ue <= 440 V
	Power circuit: 600 V conforming to CSA C22.2 No 14 Signalling circuit: 600 V conforming to CSA C22.2 No 14
	Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 600 V conforming to UL 508
	Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-4-1
Ui] Rated Insulation Voltage	Power circuit: 600 V conforming to UL 508
Average Impedance	3 mOhm - Ith 20 A 50 Hz for power circuit
	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
	20 A 50 °C - >= 15 min for power circuit
	90 A - 500 ms for signalling circuit 110 A - 100 ms for signalling circuit
	40 A 50 °C - 3 min for power circuit 80 A - 1 s for signalling circuit
	60 A 50 °C - 30 s for power circuit 45 A 50 °C - 1 min for power circuit
	80 A 50 °C - 10 s for power circuit
Icw] Rated Short-Time Withstand Current	90 A 50 °C - 1 s for power circuit 85 A 50 °C - 5 s for power circuit
	110 A at 380400 V conforming to IEC 60947 70 A at 660690 V conforming to IEC 60947
	110 A at 220230 V conforming to IEC 60947
	110 A at 440 V conforming to IEC 60947 80 A at 500 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 <50 °C) Drop-out: 0.10.7 Uc (at <50 °C)
Inrush Power In W	1.8 W (at 20 °C)
Hold-In Power Consumption In W	1.8 W at 20 °C
Heat Dissipation	1.8 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 MOhm for signalling circuit

Environment

Ip Degree Of Protection	IP20 conforming to VDE 0106
Protective Treatment	TC conforming to IEC 60068
	TC conforming to DIN 50016
Ambient Air Temperature For Operation	-2550 °C
Ambient Air Temperature For Storage	-5080 °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, 5300 Hz conforming to IEC 60068-2-6
	Vibrations contactor opened: 2 Gn, 5300 Hz conforming to IEC 60068-2-6
	Shocks contactor opened, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27
	Shocks contactor opened, on Y axis: 6 Gn for 11 ms conforming to IEC 60068-2-27
	Shocks contactor closed, on X axis: 15 Gn for 11 ms conforming to IEC 60068-2-27
	Shocks contactor closed, on Y axis: 10 Gn for 11 ms conforming to IEC 60068-2-27
Height	58 mm
Width	90 mm
Depth	57 mm

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty

18 months