Product datasheet Characteristics

LP5K09015JW3

TeSys K reversing contactor - 3P - AC-3 <= 440 V 9 A - 1 NC - 12 V DC coil

Price*: 91.17 GBP



Main	TeSys	
Range	TeSys	
Product name	TeSys K	
Product or component type	Reversing contactor	
Device short name		
Device application	Control Motor control	
Contactor application		
Utilisation category	AC-4 AC-1 AC-3	
Device presentation	Preassembled with reversing power busbar	
Poles description	3P	
Power pole contact composition		
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz Signalling circuit: <= 690 V AC 50/60 Hz	
[le] rated operational current	Power circuit: 690 V AC 50/60 Hz Signalling circuit: <= 690 V AC 50/60 Hz 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 DC low consumption	
Control circuit type	DC low consumption	
[Uc] control circuit voltage	12 V DC	
Auxiliary contact composition	1 NC	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III 20 A (at 50 °C) for power circuit 10 A (at 50 °C) for signalling circuit 110 A AC for power circuit conforming to NF C 63-110 110 A AC for power circuit conforming to IEC 60947	
[lth] 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	
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	
[lcw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit 85 A 50 °C - 5 s for power circuit 80 A 50 °C - 10 s for power circuit 60 A 50 °C - 30 s for power circuit 45 A 50 °C - 1 min for power circuit 40 A 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 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 conforming to UL 508 Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-5-1 Signalling circuit: 600 V conforming to UL 508 Power circuit: 600 V conforming to CSA C22.2 No 14 Signalling circuit: 600 V conforming to CSA C22.2 No 14	
Electrical durability	0.18 Mcycles 20 A AC-1 at Ue <= 440 V 1.3 Mcycles 9 A AC-3 at Ue <= 440 V	
Interlocking type	Mechanical	
Mounting support	Plate Rail	
Standards	NF C 63-110 IEC 60947 VDE 0660 BS 5424	
Product certifications	UL CSA	
Connections - terminals	Solder pins - busbar cross section: 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 conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1	
Mechanical durability	5 Mcycles	
Maximum operating rate	3600 cyc/h	

Complementary

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 NC	
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	
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	
Product weight	0.49 kg	

Offer Sustainability

REACh Declaration	
Yes	
Compliant EU RoHS Declaration	
Yes	
Yes	
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
No need of specific recycling operations	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Contractual warranty

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Warranty	18 month	