



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

LP5K0901JW3

! Discontinued on: 10 Oct 2020

(!) Discontinued

Main

Mairi		
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-3 AC-4 AC-1	
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 NC	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[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
[Icw] rated short-time withstand	90 A 50 °C - 1 s for power circuit
current	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
	207700 0 10 11111701 porto: 011001
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 Mayolog 20 A AC 1 at Llo <= 440 V
Liectrical 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	EN/IEC 60947-4-1
otaniaa ao	GB/T 14048.4
	UL 60947-4-1
	CSA C22.2 No 60947-4-1
	JIS C8201-4-1
Product certifications	CB Scheme
Troduct oci unoadons	CCC
	UL
	CSA
	EAC
	CE
	UKCA
Connections - terminals	Corou clama terminala 4 cable/a) 4 E 4 m==²-=1:d
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm²solid
	Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end
	Screw clamp terminals 1 cable(s) 0.342.5 mm-nexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm²solid
	Screw clamp terminals 2 cable(s) 1.54 mm²flexible without cable end
	Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end
Tightening torque	0.81.3 N.m - on screw clamp terminals Philips No 2
rigitening torque	0.81.3 N.m - on screw clamp terminals Philips No 2
Operating time	10, 20 ms coil do appraigation and NO appairs
Operauling unite	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
	0
Maximum operating rate	3600 cyc/h

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 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 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	
net weight	0.49 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6 cm
Package 1 Width	6.2 cm
Package 1 Length	9.2 cm
Package 1 Weight	490 g

Contractual warranty

Warranty	18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
⊘	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