Product data sheet Characteristics

LC1K0986BLS207

TeSys K contactor - 4P (2 NO + 2 NC) - AC-1 20 A - 24 V DC low





Main

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Range	TeSys	
Product or component type	Contactor	į
Product name	TeSys K	
Device short name	LC1K	,
Device application	Control	
Contactor application	Resistive load	

Complementary

Utilisation category	AC-1	
Poles description	4P	
Power pole contact composition	2 NO + 2 NC	
[Ue] rated operational voltage	Power 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 <= 440 V AC AC-1 for power circuit	
Control circuit type	DC low consumption	<u></u> 2
[Uc] control circuit voltage	24 V DC	
[Uimp] rated impulse withstand voltage	8 kV	9
Overvoltage category	III	
[lth] conventional free air thermal current	20 A (at 50 °C) for power circuit	0
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	
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	This documentation is n
[lcw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit	

Associated fuse rating Average impedance [Ui] rated insulation voltage	80 A 50 °C - 10 s for power circuit 60 A 50 °C - 30 s for power circuit 45 A 50 °C - 3 min for power circuit 40 A 50 °C - 3 min for power circuit 20 A 50 °C ->= 15 min for power circuit 25 A gG at <= 440 V for power circuit 10 A gG for signalling circuit conforming to IEC 60947 10 A gG for signalling circuit conforming to VDE 0660 3 mOhm - Ith 20 A 50 Hz for power circuit Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-5-1 Power circuit: 690 V conforming to VDE 0110 group C Power circuit: 690 V conforming to BS 5424	
Inrush power in W	Power circuit: 690 V conforming to NF C 20-040	
Inrush power in W	1.8 W (at 20 °C) 1.8 W at 20 °C	
Hold-in power consumption in W Heat dissipation	1.8 W	
Control circuit voltage limits	Operational: 0.71.3 Uc (at <50 °C) Drop-out: >= 0.10 Uc (at <50 °C)	
Connections - terminals	Power circuit: lugs-ring terminals (external diameter: 7 mm)	
Maximum operating rate	3600 cyc/h	
Coil technology	With integral suppression device	
Mounting support	Plate Rail	
Tightening torque	Power circuit: 1.3 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm3.2 mm Power circuit: 1.3 N.m - on lugs-ring terminals - with screwdriver Philips No 23.2 mm	
Operating time	1020 ms coil de-energisation and NO opening 3040 ms coil energisation and NO closing 2535 ms coil energisation and NC opening 1525 ms coil de-energisation and NC 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	30 Mcycles	
Electrical durability	0.18 Mcycles 20 A AC-1 at Ue <= 440 V	
Mechanical robustness	Shocks contactor closed, on X axis: 10 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Y axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor closed, on Z axis: 15 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on X axis: 6 Gn for 11 ms conforming to IEC 60068-2-27 Shocks contactor opened, on Y axis: 10 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	
Height	58 mm	
Width	45 mm	
Depth	57 mm	
Net weight	0.235 kg	

Environment

Standards	BS 5424	
	IEC 60947	
	NF C 63-110	
	VDE 0660	
	IEC 60077-1	
	IEC 60077-2	
	EN 45545: R22 HL3	
	EN/IEC 60947-4-1	
	EN/IEC 60947-5-1	
	UL 60947-4-1	
	CSA C22.2 No 60947-4-1	
Product certifications	EAC	
	IEC	
	CSA	
	CCC	

UL

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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 storage	-5080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	2000 m without
Flame retardance	V0 conforming to UL 94

Offer Sustainability

Green Premium product	
REACh Declaration	
Yes	
Compliant EU RoHS Declaration	
Yes	
Yes	
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
Product Environmental Profile	
End of Life Information	
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	