Product data sheet Characteristics

LC1K0901B7

TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NC aux. - 24 V AC coil



Local distributor code: 21146600 EAN Code: 3389110365122



Main

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

Complementary

Complementary		
Utilisation category	AC-3	
	AC-4	
	AC-1	
Poles description	3P	
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	
	9 A at <= 440 V AC AC-3 for power circuit	
	16 A (at <70 °C) at 690 V AC AC-1 for power circuit	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	24 V AC 50/60 Hz	
Motor power kW	2.2 KW at 220230 V AC 50/60 Hz AC-3	
	4 KW at 380415 V AC 50/60 Hz AC-3	
	4 KW at 440 V AC 50/60 Hz AC-3	
	4 KW at 480 V AC 50/60 Hz AC-3	
	4 KW at 500600 V AC 50/60 Hz AC-3	
	4 KW at 660690 V AC 50/60 Hz AC-3	
	2.2 KW at 400 V AC 50/60 Hz AC-4	
Auxiliary contact composition	1 NC	
[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	

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 20 A 50 °C - >= 15 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
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
Insulation resistance	> 10 MOhm for signalling circuit
Inrush power in VA	30 VA (at 20 °C)
Hold-in power consumption in VA	4.5 VA (at 20 °C)
Heat dissipation	1.3 W
Control circuit voltage limits	Operational: 0.81.15 Uc (at <50 °C) Drop-out: 0.20.75 Uc (at <50 °C)
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 2 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end
Maximum operating rate	3600 Cyc/H
Auxiliary contacts type	Type instantaneous 1 NC
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 MA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Mounting support	Plate Rail
Tightening torque	1.3 N.M - on screw clamp terminals - with screwdriver Philips No 2 1.3 N.M - on screw clamp terminals - with screwdriver flat Ø 6 mm 1.3 N.M - on screw clamp terminals - with screwdriver pozidriv No 2
Operating time	1020 ms coil de-energisation and NO opening 1020 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
Non overlap distance	
Non overlap distance Mechanical durability	to EN/ISO 13849-1



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	
Depth	57 Mm	
Net weight	0.18 Kg	

Environment

Standards	BS 5424	
	IEC 60947	
	NF C 63-110	
	VDE 0660	
Product certifications	CSA	
	UL	
	UKCA	
IP degree of protection	IP2x conforming to VDE 0106	
Protective treatment	TC conforming to IEC 60068	
	TC conforming to DIN 50016	
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	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	177.9 G
Package 1 Height	4.8 Cm
Package 1 width	6.2 Cm
Package 1 Length	6.5 Cm
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Weight	9.155 Kg
Package 2 Height	15.0 Cm
Package 2 width	30.0 Cm
Package 2 Length	40.0 Cm
Unit Type of Package 3	P06
Number of Units in Package 3	800
Package 3 Weight	154.48 Kg
Package 3 Height	75.0 Cm
Package 3 width	80.0 Cm
Package 3 Length	60.0 Cm

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes



Mercury free	Yes
RoHS exemption information	₫Yes
China RoHS Regulation	☐ China RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	☐ End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Contractual warranty	
Warranty	18 months

Commercialised

Product Life Status :