## LC1K06106BLS207

Contactor, TeSys K, 3P, AC-3 <=440V 6A, 1NO aux., 24V DC low consumption coil





# Main Range TeSys Product or component type Device short name LC1K

Control

Motor control

Complementary

Complementary		
Utilisation category	AC-3 AC-3e AC-4	
Poles description	3P	
Power pole contact composition	3 NO	
[Ue] rated operational voltage	Power circuit: <= 690 V AC <= 400 Hz Signalling circuit: <= 690 V AC <= 400 Hz	
[le] rated operational current	6 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 6 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
Control circuit type	DC low consumption	
[Uc] control circuit voltage	24 V DC	
Motor power kW	1.5 KW at 220230 V AC 50/60 Hz AC-3 2.2 KW at 380415 V AC 50/60 Hz AC-3 3 KW at 440/690 V AC 50/60 Hz AC-3 1.5 KW at 220230 V AC 50/60 Hz AC-3e 2.2 KW at 380415 V AC 50/60 Hz AC-3e 3 KW at 440/690 V AC 50/60 Hz AC-3e 1.5 KW at 220230 V AC 50/60 Hz AC-4 2.2 KW at 380415 V AC 50/60 Hz AC-4 3 kW at 440/690 V AC 50/60 Hz AC-4	
Auxiliary contact composition	1 NO	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
[lth] conventional free air thermal current	20 A (at 60 °C) for power circuit 10 A (at 50 °C) for signalling circuit	
Irms rated making capacity	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 220230 V conforming to IEC 60947 110 A at 380400 V conforming to IEC 60947 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 70 A at 660690 V conforming to IEC 60947	

Device application

Contactor application

[lcw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit
[icw] rated short-time withstand 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
	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
	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: 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
	Power circuit: 750 V conforming to VDE 0110 group C
	Power circuit: 690 V conforming to BS 5424
	Power circuit: 690 V conforming to NF C 20-040
Insulation resistance Inrush power in W	> 10 MOhm for signalling circuit  1.8 W (at 20 °C)
Hold-in power consumption in W	1.8 W at 20 °C
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
Auxiliary contacts type	Type instantaneous 1 NO
Signalling circuit frequency	<= 400 Hz
Minimum switching current	5 mA for signalling circuit
Minimum switching voltage	17 V for signalling circuit
Mounting support	Rail Plate
Tightening torque	Power circuit: 0.81.3 N.m - on lugs-ring terminals - with screwdriver 3.2 mm flat
	Ø 6 mm
	Power circuit: 0.81.3 N.m - on lugs-ring terminals - with screwdriver 3.2 mm Philips No 2
	Power circuit: 0.81.3 N.m - on lugs-ring terminals pozidriv No 2
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
Non overlap distance	0.5 mm
Mechanical durability	30 Mcycles
Electrical durability	1.3 Mcycles 6 A AC-3 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
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Net weight	0.235 kg

#### Environment

Standards	EN/IEC 60947-4-1 GB/T 14048.4 UL 60947-4-1 CSA C22.2 No 60947-4-1
	JIS C8201-4-1
Product certifications	CB Scheme[RETURN]CCC[RETURN]UL[RETURN]CSA[RETURN]EAC[RETURN]CE[RETURN]
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 derating
Flame retardance	V0 conforming to UL 94

### Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.700 cm
Package 1 Width	4.800 cm
Package 1 Length	6.200 cm
Package 1 Weight	240.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	10.055 kg

#### Offer Sustainability

Office Odditalitability	
Sustainable offer status	Green Premium product
REACh Regulation	
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	☑ China RoHS Declaration
RoHS exemption information	€Yes
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