

# TeSys K contactor - 3P - AC-3 <= 440 V 6 A - 1 NO aux. - 230 V AC coil

Local distributor code:

398261399 LC1K06103P7

EAN Code: 3389110241990

## Main

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

## Complementary

Complementary		
Utilisation category	AC-3	
· ····	AC-3e	
	AC-4	
	A0-4	
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	AC at 50/60 Hz	
[Uc] control circuit voltage	230 V AC 50/60 Hz	
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	
[Ith] conventional free air thermal	16 A (at 60 °C) for power circuit	
current	10 A (at 50 °C) for signalling circuit	
In a set of		
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	
0 , ,	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	

[Icw] rated short-time withstand current	90 A 50 °C - 1 s for power circuit	
dirent	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	OF A and at an 440 V/fee manual singuit	
Associated fuse fating	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	2 mOhm. Hh 16 A 50 Hz for power circuit	
	3 mOhm - Ith 16 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	
	Oignaining Chould. 500 V Contorning to SOA 522.2 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 Uc (at <50 °C)	
Connections - terminals	Spring terminals 1 cable(s) 0.751.5 mm²solid	
	Spring terminals 1 cable(s) 0.751.5 mm²flexible without cable end	
	Spring terminals 2 cable(s) 0.751.5 mm²flexible without cable end	
Maximum operating rate	3600 cyc/h	
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	Plate	
- /•	Rail	
Operating time	10. 20 ma soil do energiaction and NO energias	
Operating time	1020 ms coil de-energisation and NO opening 1020 ms coil energisation and NO closing	
Onfahr, maliah ilita 1 1	D.O. 1000000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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	10 Mcycles	
	·	
Electrical durability	1.3 Mcycles 6 A AC-3 at Ue <= 440 V	
	1.3 Mcycles 6 A AC-3e at Ue <= 440 V 0.05 Mcycles 36 A AC-4 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	0.18 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 IEC 60335-1:Clause 30.2 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ	
Product certifications	CB Scheme CCC UL CSA EAC CE 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 Height	6.5 cm
Package 1 Width	6 cm
Package 1 Length	4.7 cm
Package 1 Weight	182 g
Unit Type of Package 2	S02
Number of Units in Package 2	50
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	9.436 kg

# **Logistical informations**

Country of origin

# **Contractual warranty**

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

#### Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Total lifecycle Carbon footprint	50
Environmental Disclosure	Product Environmental Profile

#### **Use Better**

<b>⊗</b> Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant
REACh Regulation	REACh Declaration

#### **Use Again**

○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

#### Offer Marketing Illustration

#### Product benefits / Features

# TeSys K

### Contactors



#### Flexibility

Designed with control voltages, low consumption, minimal noise levels, robust power connections, and a range of auxiliaries, and application-specific variants to meet diverse needs.



#### Safety

It provide ultimate protection with IP20 fingersafe terminals, built-in NO/NC auxiliary contacts, and IEC-certified mirror and mechanically linked contacts for safety applications.



#### Compact size

Up to 50% less volume is captured in your panels. One of he smallest contactors offerings in the market

#### Offer Marketing Illustration

#### Product benefits / Features

# TeSys K

## **Technical Benefits**



Up to 4 more by add-on blocks

Up to 16 A for motor control (AC3/ AC3E) and 20A for resistive load control (AC1)

Available as single contactors, star-delta, and reversing combos, with a wealth of options and accessories

#### Control Options:

- AC: 24 to 660/690 V, standard or low-noise versions
- DC: 12 to 250V, standard or low consumption (1.8 W) versions

Thermal protection relays

It Features specific versions for railway (TeSys \$207) and electrodomestic (TeSys \$335) applications



# **Product datasheet**

## LC1K06103P7

**Technical Illustration** 

## Assembly's dimensions



