

# TeSys K contactor - 4P (2 NO + 2 NC) - AC-1 <= 440 V 20 A - 110 V AC coil

Local distributor code:

402891574 LC1K090085F7

EAN Code: 3389110489583

## Main

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

## Complementary

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Utilisation category	AC-1	
Poles description	4P	
power pole contact composition	2 NO + 2 NC	
[Ue] rated operational voltage	Power circuit: <= 690 V AC <= 400 Hz Signalling circuit: <= 690 V AC <= 400 Hz	
[le] rated operational current	20 A (at <60 °C) at <= 690 V AC AC-1 for power circuit	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	110 V AC 50/60 Hz	
[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	
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	
[Icw] 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	
Associated fuse rating	25 A gG at <= 440 V for power circuit 25 A aM for power circuit	
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 Power circuit: 600 V conforming to CSA C22.2 No 14	

30 VA (at 20 °C)	
4.5 VA (at 20 °C)	
Operational: 0.81.15 Uc (at <50 °C) Drop-out: >= 0.20 Uc (at <50 °C)	
Solder pins (external diameter: 0.035 mm)	
3600 cyc/h	
<= 400 Hz	
C 60068-2-27 C 60068-2-27 C 60068-2-27 EC 60068-2-27 EC 60068-2-27 8-2-6	
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  10 Mcycles  0.16 Mcycles 20 A AC-1 at Ue <= 690 V  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 60068-2-28 Shocks contactor opened, on Z axis: 10 Gn for 11 ms conforming to IEC 60068-2-20 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  58 mm  45 mm	

## **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	
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**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.500 cm
Package 1 Width	4.800 cm
Package 1 Length	6.200 cm
Package 1 Weight	206.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	64
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	13.444 kg
Unit Type of Package 3	P06
Number of Units in Package 3	1024
Package 3 Height	75.000 cm
Package 3 Width	80.000 cm
Package 3 Length	60.000 cm
Package 3 Weight	223.104 kg

## **Logistical informations**

Country of origin FR

# **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 >

Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	91	
Environmental Disclosure	Product Environmental Profile	

### **Use Better**

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	
Circularity Profile	End of Life Information
Take-back	No
WEEE	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 Technical Benefits

Built-in in all 3 pole versions: 1NO or 1NC

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



### 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 **Technical Illustration** 

## Assembly's dimensions

