

# Product data sheet

Specifications



## Contactors TeSys K, 4 poles, AC-1, 440V 20 A, coil 220V AC

LC7K09004M7TQ

⚠ Discontinued

### Main

Product or Component Type	Silent contactor
Device short name	LC7K
Contactors application	Resistive load

### Complementary

Utilisation category	AC-1
Poles description	4P
power pole contact composition	4 NO
[Ue] rated operational voltage	Power circuit $\leq 690$ V AC $\leq 400$ Hz Signalling circuit $\leq 690$ V AC $\leq 400$ Hz
[Ie] rated operational current	20 A (at $\leq 140$ °F (60 °C)) at $\leq 690$ V AC AC-1 for power circuit
Control circuit type	AC 50/60 Hz standard
[Uc] control circuit voltage	220 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	20 A (at 140 °F (60 °C)) for power circuit 10 A (at 122 °F (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 220...230 V conforming to IEC 60947 110 A at 380...400 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 660...690 V conforming to IEC 60947
[Icw] rated short-time withstand current	90 A 122 °F (50 °C) - 1 s for power circuit 85 A 122 °F (50 °C) - 5 s for power circuit 80 A 122 °F (50 °C) - 10 s for power circuit 60 A 122 °F (50 °C) - 30 s for power circuit 45 A 122 °F (50 °C) - 1 min for power circuit 40 A 122 °F (50 °C) - 3 min for power circuit 20 A 122 °F (50 °C) - $\geq 15$ min for power circuit
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947 10 A gG for control circuit conforming to VDE 0660 25 A gG at $\leq 440$ V for power circuit
Average impedance	3 mOhm - Ith 20 A 50 Hz for power circuit

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>[Ui] rated insulation voltage</b>	Control circuit 690 V BS 5424 Control circuit 690 V IEC 60947 Power circuit 690 V BS 5424 Power circuit 690 V IEC 60947 Power circuit 690 V NF C 20-040 Control circuit 750 V VDE 0110 group C Power circuit 750 V VDE 0110 group C Control circuit 600 V CSA C22.2 No 14 Power circuit 600 V UL 508 CSA C22.2 No 14
<b>Insulation resistance</b>	> 10 MOhm for control circuit
<b>Inrush power in VA</b>	3 VA (at 68 °F (20 °C))
<b>Hold-in power consumption in VA</b>	3 VA 50/60 Hz (at 68 °F (20 °C))
<b>Control circuit voltage limits</b>	Operational: 0.85...1.1 Uc at 50/60 Hz (at <122 °F (50 °C)) Drop-out: >= 0.10 Uc at 50/60 Hz (at <122 °F (50 °C))
<b>Connections - terminals</b>	screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 1 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 1 0.0005...0.004 in <sup>2</sup> (0.34...2.5 mm <sup>2</sup> )flexible with cable end screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1.5...4 mm <sup>2</sup> )solid screw clamp terminals 2 0.001...0.006 in <sup>2</sup> (0.75...4 mm <sup>2</sup> )flexible without cable end screw clamp terminals 2 0.0005...0.002 in <sup>2</sup> (0.34...1.5 mm <sup>2</sup> )flexible with cable end
<b>Maximum operating rate</b>	3600 cyc/h
<b>Coil technology</b>	With integral suppression device
<b>Minimum switching current</b>	5 mA for control circuit
<b>Minimum switching voltage</b>	17 V for control circuit
<b>Mounting Support</b>	Plate Rail
<b>Operating time</b>	25...35 ms coil energisation and NC opening 30...40 ms between energisation of coil and closing of NO contact 30 ms coil de-energisation and NO opening 40 ms coil de-energisation and NC opening
<b>Safety reliability level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical durability</b>	10 Mcycles
<b>Electrical durability</b>	0.16 Mcycles 20 A AC-1 <= 690 V
<b>Height</b>	2.3 in (58 mm)
<b>Width</b>	1.8 in (45 mm)
<b>Depth</b>	2.2 in (57 mm)
<b>Net Weight</b>	0.496 lb(US) (0.225 kg)

## Environment

<b>Product Certifications</b>	CB Scheme CCC UL CSA EAC CE UKCA
<b>Ambient Air Temperature for Storage</b>	-58...176 °F (-50...80 °C)
<b>Operating altitude</b>	6561.68 ft (2000 m) without derating
<b>Fire resistance</b>	1562 °F (850 °C) IEC 60695-2-1
<b>Flame retardance</b>	Class C2 conforming to NF F 16-101 Class C2 conforming to NF F 16-102 V1 conforming to UL 94

## Ordering and shipping details

Category	18400-WORLD SERVICE PARTS(CONTACTORS)
Discount Schedule	CP10
GTIN	3389110492705
Returnability	No

## Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.8 in (7.0 cm)
Package 1 Width	11.4 in (29.0 cm)
Package 1 Length	11.6 in (29.5 cm)
Package weight(Lbs)	8.0 oz (226.0 g)
Unit Type of Package 2	CAR
Number of Units in Package 2	30
Package 2 Height	2.8 in (7.0 cm)
Package 2 Width	11.4 in (29.0 cm)
Package 2 Length	11.6 in (29.5 cm)
Package 2 Weight	14.95 lb(US) (6.78 kg)

## Contractual warranty

Warranty (in months)	18
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## Environmental Data

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	150 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	149 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.4 kg CO2 eq.

## Use Better



### Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
<a href="#">EU RoHS Directive</a>	Compliant with Exemptions
SCIP Number	B7d10624-820b-42cb-a985-485c51dc0f85
REACH Regulation	<a href="#">REACH Declaration</a>

## Use Longer




### Lifetime extension

Repair	No
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## Use Again



### Repack and remanufacture

Recyclability potential, in %	64
Circularity Profile	<a href="#">End of Life Information</a>
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.