# Product data sheet Characteristics

# LC1K0910U7

TeSys K contactor - 3P - AC-3 <= 440 V 9 A - 1 NO aux. - 230...240 V AC coil



Local distributor code: 20744812 EAN Code: 3389110490343



#### Main

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

Complementary		
Utilisation category	AC-4 AC-1 AC-3	
Poles description	3P	-
Pole contact composition	3 NO	
[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	230240 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 NO	
Overvoltage category	III	
[lth] 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	

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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	
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)	
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	
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	0.5 Mm	
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 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	

#### Environment

Ziiii Giiii Gii		
Product certifications	CSA UL UKCA	
Protective treatment	TC conforming to IEC 60068 TC conforming to DIN 50016	
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	181.0 G	
Package 1 Height	6.5 Cm	
Package 1 width	6.2 Cm	
Package 1 Length	4.8 Cm	
Unit Type of Package 2	S02	
Number of Units in Package 2	50	
Package 2 Weight	9.368 Kg	
Package 2 Height	15.0 Cm	
Package 2 width	30.0 Cm	
Package 2 Length	40.0 Cm	
Package 3 Height	77 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

Product Life Status : Commercialised