TeSys K contactor - 3P - AC-3 <= 440 V 16 A - 1 NC aux. - 24 V AC coil

LC1K1601B7S335

Discontinued on: 03 June 2020

(!) Discontinued

LC1K1601B7S335 has not been replaced. Please contact your customer care centre for more information.

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

Complementary	
Utilisation category	AC-3 AC-1
Poles description	3P
Power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: 690 V AC 50/60 Hz Signalling circuit: 690 V AC 50/60 Hz
[le] rated operational current	16 A at <= 440 V AC-3 for power circuit 20 A (at <50 °C) at <= 440 V AC-1 for power circuit 16 A (at <70 °C) at <= 690 V AC-1 for power circuit
Control circuit type	AC at 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
Motor power kW	4 kW at 480 V AC 50/60 Hz 4 kW at 500600 V AC 50/60 Hz 4 kW at 660690 V AC 50/60 Hz 5.5 kW at 440 V AC 50/60 Hz 4 kW at 220230 V AC 50/60 Hz 7.5 kW at 380415 V AC 50/60 Hz
Auxiliary contact composition	1 NC
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[Ith] 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 signalling circuit conforming to IEC 60947 160 A AC for power circuit conforming to NF C 63-110 160 A AC for power circuit conforming to IEC 60947

Rated breaking capacity

110 A at 440 V conforming to IEC 60947

 $80~\mbox{A}$ at $500~\mbox{V}$ conforming to IEC 60947

	70 / At 600600 V comonning to 120 000-71
[Icw] rated short-time withstand current	115 A 50 °C - 1 s for power circuit 105 A 50 °C - 5 s for power circuit 100 A 50 °C - 10 s for power circuit 75 A 50 °C - 30 s for power circuit 55 A 50 °C - 1 min for power circuit 50 A 50 °C - 3 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 25 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 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: 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 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 Power circuit: 690 V conforming to IEC 60947 Signalling circuit: 690 V conforming to IEC 60947 Signalling circuit: 690 V conforming to BS 5424 Signalling circuit: 600 V conforming to VDE 0110 group C
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	Drop-out: 0.20.75 Uc (at <50 °C) Operational: 0.851.15 Uc (at <50 °C)
Connections - terminals	Screw clamp terminals 1 cable(s) 1.54 mm²solid Screw clamp terminals 1 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm²flexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm²solid Screw clamp terminals 2 cable(s) 0.754 mm²flexible without cable end Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end
Maximum operating rate	3600 cyc/h
Auxiliary contacts type	type instantaneous 1 NC
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	0.8 N.m - on screw clamp terminals - with screwdriver Philips No 2 0.8 N.m - on screw clamp terminals - with screwdriver flat \varnothing 6 mm
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 durability	10 Mcycles
Electrical durability	1.3 Mcycles 16 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
Net weight	0.235 kg
	0.250 Ng
Environment	
Standards	EN/IEC 60947-4-1
	EN/IEC 60947-5-1 EN 60335-1
Product certifications	CB Scheme
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	-2550 °C
operation	
Ambient air temperature for storage	-5080 °C
Operating altitude	2000 m without derating
Flame retardance	V1 conforming to UL 94
Packing Units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	180 g
Package 1 Height	4.8 cm
Package 1 width	6.2 cm
Package 1 Length	6.6 cm
Offer Sustainability	
Sustainable offer status	Green Premium product
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EU RoHS Declaration
Toxic heavy metal free	Yes
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
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

Contractual warranty

Warranty	18 months