Product datasheet

Specifications





TeSys K reversing contactor - 3P -AC-3 <= 440 V 16 A - 1 NC -400...415 V AC

LC2K1601N7

Discontinued on: 01-Nov-2020

① Discontinued

Main

Mann		
Range	TeSys	
Product name	TeSys K	
Product or component type	Reversing contactor	
Device short name	LC2K	
Device application	Control	
contactor application	Motor control	
Utilisation category	AC-3 AC-4	
device presentation	Preassembled with reversing power busbar	
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 AC-3 for power circuit	
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	
Control circuit type	AC at 50/60 Hz	
[Uc] control circuit voltage	400415 V AC 50/60 Hz	
Auxiliary contact composition	1 NC	
[Uimp] rated impulse withstand voltage	e withstand 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	160 A at 690 V AC for power circuit conforming to NF C 63-110 160 A at 690 V AC for power circuit conforming to IEC 60947 110 A AC for signalling circuit conforming to IEC 60947	
Rated breaking capacity	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	

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
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
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
3 mOhm - Ith 20 A 50 Hz for power circuit
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
1.3 Mcycles 16 A AC-3 at Ue <= 440 V
Mechanical
Plate
Rail
EN/IEC 60947-4-1
GB/T 14048.4
UL 60947-4-1
CSA C22.2 No 60947-4-1
JIS C8201-4-1
CB Scheme
CCC
UL
CSA
EAC
CE
UKCA
Serou elementerminele 1 echle/e) 1 E 1 mm²celid
Screw clamp terminals 1 cable(s) 1.54 mm ² solid Screw clamp terminals 1 cable(s) 0.754 mm ² flexible without cable end
Screw clamp terminals 1 cable(s) 0.754 mm lexible without cable end Screw clamp terminals 1 cable(s) 0.342.5 mm ² flexible with cable end
Screw clamp terminals 1 cable(s) 0.342.5 min flexible with cable end Screw clamp terminals 2 cable(s) 1.54 mm ² solid
Screw clamp terminals 2 cable(s) 1.54 mm solid Screw clamp terminals 2 cable(s) 0.754 mm ² flexible without cable end
Screw clamp terminals 2 cable(s) 0.341.5 mm²flexible with cable end
0.81.3 N.m - on screw clamp terminals Philips No 2 0.81.3 N.m - on screw clamp terminals flat Ø 6 mm
0.0
1020 ms coil energisation and NO closing
1020 ms coil de-energisation and NO opening
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
5 Mcycles
3600 cyc/h

Complementary

Control circuit voltage limits	Drop-out: 0.20.75 Uc (at <50 °C) Operational: 0.851.15 Uc (at <50 °C)	
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	

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	
Non overlap distance	0.5 mm	
Insulation resistance	> 10 MOhm for signalling circuit	

Environment

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 operation	-2550 °C	
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	
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	90 mm	
Depth	57 mm	
Net weight	0.39 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6 cm
Package 1 Width	6.2 cm
Package 1 Length	9.2 cm
Package 1 Weight	370 g

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

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Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Reach Free Of Svhc
Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information

Yes