Product data sheet

Specification





reversing Contactor, TeSys K, 3P, AC-3/AC-3e,440V 12A, 1NO, 24V AC coil,faston connectors

LC2K12107B7

Main

wain	
Range	TeSys
Product name	TeSys K
product or component type	Reversing contactor
Device short name	LC2K
Device application	Control
contactor application	Resistive load Motor control
Utilisation category	AC-1 AC-4 AC-3 AC-3e
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	20 A (at <122 °F (50 °C)) at <= 440 V AC AC-1 for power circuit 16 A (at <158 °F (70 °C)) at 690 V AC AC-1 for power circuit 12 A at <= 440 V AC AC-3 for power circuit 12 A at <= 440 V AC AC-3e for power circuit
Motor power kW	4 kW 480 V AC 50/60 Hz 4 kW 500600 V AC 50/60 Hz 4 kW 660690 V AC 50/60 Hz 3 kW 220230 V AC 50/60 Hz 5.5 kW 380415 V AC 50/60 Hz 5.5 kW 440 V AC 50/60 Hz
Control circuit type	AC 50/60 Hz
[Uc] control circuit voltage	24 V AC 50/60 Hz
Auxiliary contact composition	1 NO
[Uimp] rated impulse withstand voltage	8 kV
Overvoltage category	III
[lth] conventional free air thermal current	20 A (at 122 °F (50 °C)) for power circuit 10 A (at 122 °F (50 °C)) for signalling circuit
Irms rated making capacity	144 A at 690 V AC for power circuit conforming to NF C 63-110 144 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

[lcw] rated short-time withstand current	115 A 122 °F (50 °C) - 1 s for power circuit 105 A 122 °F (50 °C) - 5 s for power circuit 100 A 122 °F (50 °C) - 10 s for power circuit 75 A 122 °F (50 °C) - 30 s for power circuit 55 A 122 °F (50 °C) - 1 min for power circuit 50 A 122 °F (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 122 °F (50 °C) - >= 15 min for power circuit
	23 A 122 F (30 G) - >= 13 Hill Flot 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 UL 508
	Power circuit 690 V IEC 60947-4-1
	Signalling circuit 690 V IEC 60947-4-1
	Signalling circuit 690 V IEC 60947-5-1
	Signalling circuit 600 V UL 508
	Power circuit 600 V CSA C22.2 No 14 Signalling circuit 600 V CSA C22.2 No 14
Electrical durability	1.3 Mcycles 12 A AC-3 <= 440 V
	1.3 Mcycles 12 A AC-3e <= 440 V
	0.3 Mcycles 20 A AC-1 <= 690 V
	0.02 Mcycles 72 A AC-4 <= 440 V
Interlocking type	Mechanical
mounting support	Rail
	Plate
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
Product certifications	CB Scheme
	CCC
	UL
	CSA
	EAC
	CE UKCA
Connections - terminals	Faston terminals 2 0.11 in (2.8 mm)) Faston terminals 1 0.25 in (6.35 mm))
_	rasion terminais i 0.25 in (0.55 min))
Operating time	1020 ms coil energisation and NO closing
	1020 ms coil de-energisation and NO opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	5 Mcycles
Maximum operating rate	3600 cyc/h
Complementary	
	Operational 0.0. 4.45 He /et 4400.05 (50.00)
Control circuit voltage limits	Operational: 0.81.15 Uc (at <122 °F (50 °C)) Drop-out: 0.20.75 Uc (at <122 °F (50 °C))
Inrush power in VA	30 VA (at 68 °F (20 °C))
Hold-in power consumption in VA	4.5 VA (at 68 °F (20 °C))
Heat dissipation	1.3 W
Auxiliary contacts 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
Non overlap distance	0.02 in (0.5 mm)
Insulation resistance	> 10 MOhm for signalling circuit

Environment

IP20 VDE 0106	
TC IEC 60068 TC DIN 50016	
-13122 °F (-2550 °C)	
-58176 °F (-5080 °C)	
2000 m without derating	
V1 UL 94 Requirement 2 NF F 16-101 Requirement 2 NF F 16-102	
Shocks contactor closed, on X axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Y axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor closed, on Z axis15 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on X axis6 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Y axis10 Gn for 11 ms IEC 60068-2-27 Shocks contactor opened, on Z axis10 Gn for 11 ms IEC 60068-2-27 Vibrations contactor closed4 Gn, 5300 Hz IEC 60068-2-6 Vibrations contactor opened2 Gn, 5300 Hz IEC 60068-2-6	
2.3 in (58 mm)	
3.5 in (90 mm)	
2.2 in (57 mm)	
0.86 lb(US) (0.39 kg)	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.4 in (6.0 cm)
Package 1 Width	2.4 in (6.2 cm)
Package 1 Length	3.6 in (9.2 cm)
Package 1 Weight	13.05 oz (370.0 g)

Contractual warranty

Warranty	18 months	



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc	
②	Toxic Heavy Metal Free	
②	Mercury Free	
②	Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
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