Product datasheet

Specification

Main





Contactor, Easy TeSys
Control, LC1E,
3P(3NO), AC-3, <= 440V, 6A, 220V
AC coil, 60Hz, 1NC auxiliary contact

LC1E0601M6

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(!) Discontinued on: 31-Dec-2020



Range	Easy TeSys	
Range Of Product	Easy TeSys Control	
Product Or Component Type	Contactor	
Device Short Name	LC1E	
Contactor Application	Resistive load Motor control	
Utilisation Category	AC-1 AC-3	
Poles Description	3P	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 50/60 Hz	
[le] Rated Operational Current	6 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 20 A (at <55 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	220 V AC 60 Hz	

Complementary

Motor Power Kw	1.1 kW at 220230 V AC 50/60 Hz
	2.2 kW at 380400 V
	2.2 kW at 415 V
	2.2 kW at 440 V
	3 kW at 500 V
	3 kW at 660690 V
Pole Contact Composition	3 NO
[Ith] Conventional Free Air Thermal Current	16 A (at 60 °C) for power circuit
Irms Rated Making Capacity	60 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated Breaking Capacity	48 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	80 A 40 °C - 10 s for power circuit
Current	45 A 40 °C - 60 s for power circuit
	20 A 40 °C - 600 s for power circuit
Associated Fuse Rating	10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC
	60947-5-1
	12 A gG at <= 690 V coordination type 1 for power circuit
Average Impedance	2.5 mOhm - Ith 20 A 50 Hz for power circuit
Power Dissipation Per Pole	0.09 W AC-3
	1 W AC-1
[Ui] Rated Insulation Voltage	690 V conforming to IEC 60947-4-1
Overvoltage Category	III

Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV coil not connected to the power circuit conforming to IEC 60947
Mechanical Durability	10000000 cycles
Electrical Durability	1400000 cycles AC-3 150000 cycles AC-1
Control Circuit Type	AC at 60 Hz
Control Circuit Voltage Limits	0.851.1 Uc (55 °C):operational 60 Hz 0.30.6 Uc (55 °C):drop-out 60 Hz
Inrush Power In Va	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	8.3 VA 50 Hz cos phi 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	23 W for control circuit
Operating Time	1222 ms on closing 419 ms on opening
Maximum Operating Rate	1800 cyc/h 60 °C
Connections - Terminals	Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end
Tightening Torque	Power circuit: 1.2 N.m Control circuit: 1.2 N.m
Auxiliary Contact Composition	1 NC
Minimum Switching Voltage	17 V for control circuit
Minimum Switching Current	5 mA for control circuit
Insulation Resistance	> 10 MOhm for control circuit
Non-Overlap Time	1.5 ms on energisation guaranteed between NC and NO contact 1.5 ms on de-energisation guaranteed between NC and NO contact
Mounting Support	Plate DIN rail
Environment	
Standards	IEC 60947-4-1 IEC 60947-1 IEC 60947-5-1
Product Certifications	CE EAC
Ip Degree Of Protection	IP2X conforming to IEC 60529
Protective Treatment	TH (pollution degree 3) conforming to IEC 60068-2-30

Permissible Ambient Air	-2070 °C at Uc	
Temperature Around The Device	-6080 °C storage	
	-555 °C operation	
Operating Altitude	3000 m without derating	
Fire Resistance	850 °C conforming to IEC 60695-2-1	
Mechanical Robustness	Vibrations contactor open (1.5 Gn, 5300 Hz)	
	Vibrations contactor closed (3 Gn, 5300 Hz)	
	Shocks contactor open (7 Gn for 11 ms)	
	Shocks contactor closed (10 Gn for 11 ms)	
Height	74 mm	
Width	45 mm	
Depth	80 mm	
Net Weight	0.3 kg	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.31 cm
Package 1 Width	7.4 cm
Package 1 Length	4.82 cm
Package 1 Weight	340 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	36
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	12.648 kg

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	
⊘	Rohs Exemption Information	Yes

Certifications & Standards

Eu Rohs Directive	Compliant	
	EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration	
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	