

Product datasheet

Specifications



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

LC1E0610M6

! Discontinued

! Discontinued on: 31-Dec-2020

! To be end-of-service on: 12-Mar-2024

Main

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-3 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 50/60 Hz
[Ie] 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 220...230 V AC 50/60 Hz 2.2 kW at 380...400 V 2.2 kW at 415 V 2.2 kW at 440 V 3 kW at 500 V 3 kW at 660...690 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 Current	80 A 40 °C - 10 s for power circuit 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	0.85...1.1 Uc (55 °C):operational 60 Hz 0.3...0.6 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	2...3 W for control circuit
Operating Time	12...22 ms on closing 4...19 ms on opening
Maximum Operating Rate	1800 cyc/h 60 °C
Connections - Terminals	Power circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: solid without cable end
Tightening Torque	Power circuit: 1.2 N.m Control circuit: 1.2 N.m
Auxiliary Contact Composition	1 NO
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	DIN rail Plate

Environment

Standards	IEC 60947-4-1 IEC 60947-5-1 IEC 60947-1
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 Temperature Around The Device	-20...70 °C at Uc -60...80 °C storage -5...55 °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, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 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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Sustainability

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

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[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 Yes

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration

China Rohs Regulation	China RoHS declaration
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Environmental Disclosure	Product Environmental Profile
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Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
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