

Contactor, Easy TeSys Control, LC1E, 3P(3NO), AC-3, <=440V, 80A, 220V AC coil, 50Hz

LC1E80M5

Main

Range	Easy TeSys
Range Of Product	Easy TeSys Control
Product Or Component Type	Contactor
Device Short Name	LC1E
Contactor Application	Motor control Resistive load
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	80 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 110 A (at <55 °C) at <= 440 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	220 V AC 50 Hz

Complementary

Motor Power Kw	22 kW at 220230 V AC 50/60 Hz
	37 kW at 380400 V
	45 kW at 415 V
	45 kW at 440 V
	45 kW at 500 V
	45 kW at 660690 V
Pole Contact Composition	3 NO
[Ith] Conventional Free Air Thermal Current	100 A (at 60 °C) for power circuit
Irms Rated Making Capacity	800 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated Breaking Capacity	640 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	640 A 40 °C - 10 s for power circuit
	320 A 40 °C - 60 s for power circuit
	135 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
	160 A gG at <= 690 V coordination type 1 for power circuit
Average Impedance	0.8 mOhm - Ith 110 A 50 Hz for power circuit
Power Dissipation Per Pole	5.1 W AC-3
	9.7 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	3000000 cycles
Electrical Durability	350000 cycles AC-1 900000 cycles AC-3
Control Circuit Type	AC at 50 Hz
Control Circuit Voltage Limits	0.851.1 Uc (-555 °C):operational 50 Hz 0.30.6 Uc (-555 °C):drop-out 50 Hz
Inrush Power In Va	200 VA 50 Hz cos phi 0.75 (at 20 °C) 220 VA 60 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	22 VA 60 Hz cos phi 0.3 (at 20 °C) 20 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	610 W for control circuit
Operating Time	2035 ms on closing 630 ms on opening
Maximum Operating Rate	1200 cyc/h 60 °C
Tightening Torque Auxiliary Contact Composition	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 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 416 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 450 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 450 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 450 mm² - cable stiffness: solid without cable end Power circuit: 1.2 N.m Power circuit: 1.2 N.m Power circuit: 1.2 N.m
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	IEC 60047.4
Standards	IEC 60947-1 IEC 60947-4-1 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 Temperature Around The Device	-2070 °C at Uc -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 (6 Gn for 11 ms)	
	Shocks contactor closed (7 Gn for 11 ms)	
Height	127 mm	
Width	85 mm	
Depth	121 mm	
Net Weight	1.52 kg	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	15.3 cm
Package 1 Width	11.4 cm
Package 1 Length	15.9 cm
Package 1 Weight	1.556 kg
Unit Type Of Package 2	S03
Number Of Units In Package 2	5
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	8.332 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	40
Package 3 Height	77 cm
Package 3 Width	80 cm
Package 3 Length	60 cm
Package 3 Weight	76.444 kg

Contractual warranty

Warranty 18 months

Sustainability

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.

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



Mercury Free



Rohs Exemption Information

Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information
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