Product datasheet

Specifications

Easy TeSys contactor 3P(3 NO) - AC-3 - 400 V 25A - 220 V AC coil wide range

LC1E1210M5WB

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-3 AC-1
poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz
[Ie] rated operational current	25 A (at <55 °C) at <= 440 V AC-1 for power circuit 12 A (at <55 °C) at <= 440 V AC-3 for power circuit
[Uc] control circuit voltage	220 V AC 50 Hz

Complementary

Motor power kW	3 kW at 220...230 V AC 50/60 Hz 5.5 kW at 380...400 V 5.5 kW at 415 V 5.5 kW at 440 V 7.5 kW at 500 V 7.5 kW at 660...690 V
Pole contact composition	3 NO
[Ith] conventional free air thermal current	25 A (at 55 °C)
Irms rated making capacity	120 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	96 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	105 A 40 °C - 10 s for power circuit 61 A 40 °C - 60 s for power circuit 30 A 40 °C - 600 s for power circuit
Associated fuse rating	25 A gG at <= 690 V coordination type 1 for power circuit 10 A gG at <= 690 V for signalling circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	0.36 W AC-3 1.6 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 300000 cycles AC-1
Control circuit type	AC at 50 Hz wide range
Control circuit voltage limits	0.3...0.6 Uc (-5…55 °C):drop-out 50 Hz 0.7...1.25 Uc (-5…55 °C):operational 50 Hz
Inrush power in VA	95 VA 50 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)
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 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid Power circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid
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 signalling circuit
Minimum switching current	5 mA for signalling circuit
Insulation resistance	> 10 MOhm for signalling circuit
mounting support	DIN rail Plate

Environment

Standards	IEC 60947-5-1 IEC 60947-4-1 IEC 60947-1
product certifications	EAC CE
IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30 test Db
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	8.5 cm
Package 1 Width	5.0 cm
Package 1 Length	7.5 cm
Package 1 Weight	294.0 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

Sustainability

Green Premium^{TM} 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-CO_2 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

Reach Regulation	REACh Declaration
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
Circularity Profile	End of Life Information