Product datasheet

Specifications





Contactor, Easy TeSys Control, LC1E, 3P(3NO), AC-3, <=440V, 32A, 24V DC coil, 1 NO auxiliary contact

LC1E3210BD

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-3e AC-1	
poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz	
[le] rated operational current	32 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 32 A (at <55 °C) at <= 440 V AC AC-3e for power circuit 50 A (at <55 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	24 V DC	

Complementary

,	
Motor power kW	7.5 kW at 220230 V AC 50/60 Hz (AC-3)
	15 kW at 380400 V AC 50/60 Hz (AC-3)
	15 kW at 415 V AC 50/60 Hz (AC-3)
	15 kW at 440 V AC 50/60 Hz (AC-3)
	18.5 kW at 500 V AC 50/60 Hz (AC-3)
	18.5 kW at 660690 V AC 50/60 Hz (AC-3)
Pole contact composition	3 NO
[lth] conventional free air thermal current	50 A (at 55 °C) for power circuit
Irms rated making capacity	416 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	272 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand	260 A 40 °C - 10 s for power circuit
current	138 A 40 °C - 60 s for power circuit
	60 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
	63 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 50 A 50 Hz for power circuit
Power dissipation per pole	2 W AC-3
	5 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	8000000 cycles
Electrical durability	1000000 cycles AC-3 at Ue <= 440 V 350000 cycles AC-1 at Ue <= 440 V
Control circuit type	DC
Control circuit voltage limits	0.851.1 Uc (-555 °C):operational DC 0.10.25 Uc (-555 °C):drop-out DC
Inrush power in W	6 W (at 20 °C)
Hold-in power consumption in W	6 W at 20 °C
Operating time	5372 ms on closing 1624 ms on opening
Time constant	28 ms
Maximum operating rate	1800 cyc/h 60 °C
Connections - terminals	Power circuit: screw clamp terminals 1 16 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1.510 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1.510 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1.56 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: 1 14 mm² - cable stiffness: solid without cable end Control circuit: 1 14 mm² - cable stiffness: solid without cable end Control circuit: 2 14 mm² - cable stiffness: solid without cable end
Tightening torque	Power circuit: 2.5 N.m Control circuit: 1.7 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 60947-4-1 IEC 60947-5-1
product certifications	EAC CE
IP degree of protection	IP20 conforming to IEC 60529

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Protective treatment	TH conforming to IEC 60068-2-30 test Db
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	Shocks contactor open (5 Gn for 11 ms) conforming to IEC 60068-2-7 Shocks contactor closed (10 Gn for 11 ms) conforming to IEC 60068-2-7 Vibrations contactor open (1.5 Gn, 5300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (3 Gn, 5300 Hz) conforming to IEC 60068-2-6	
Height	85 mm	
Width	56 mm	
Depth	99 mm	
net weight	0.55 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.400 cm
Package 1 Width	9.300 cm
Package 1 Length	11.300 cm
Package 1 Weight	548.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.546 kg

Sustainability Screen Premium

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



Rohs Exemption Information

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

Technical Illustration

Dimensions



