Product datasheet

Specifications





Easy TeSys contactor 3P(3 NO) -AC-3 - <= 440 V 160A - 220 V AC coil

LC1E160M5

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-1 AC-3	
poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz	
[le] rated operational current	160 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 200 A (at <55 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	220 V AC 50 Hz	

Complementary

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Motor power kW	45 kW at 220230 V AC 50/60 Hz 75 kW at 380400 V 80 kW at 415 V 80 kW at 440 V 90 kW at 500 V 100 kW at 660690 V	
Pole contact composition	3 NO	
[Ith] conventional free air thermal current	200 A (at 40 °C)	
Irms rated making capacity	1600 A at 440 V AC for power circuit conforming to IEC 60947-4-1	
Rated breaking capacity	1280 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand current	1400 A 40 °C - 10 s for power circuit	
Associated fuse rating	10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit	
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit	
Power dissipation per pole	24 W AC-1 15 W AC-3	
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1	
Overvoltage category	III	
Pollution degree	3	
[Uimp] rated impulse withstand voltage	8 kV coil not connected to the power circuit conforming to IEC 60947	

Mechanical durability	4000000 cycles	
Electrical durability	800000 cycles AC-3 250000 cycles AC-1	
Control circuit type	AC at 50 Hz	
Control circuit voltage limits	0.851.1 Uc (-555 °C):operational 50 Hz 0.350.55 Uc (-555 °C):drop-out 50 Hz	
Inrush power in VA	300 VA 50 Hz cos phi 0.9 (at 20 °C) 300 VA 60 Hz cos phi 0.9 (at 20 °C)	
Hold-in power consumption in VA	22 VA 50 Hz cos phi 0.9 (at 20 °C) 22 VA 60 Hz cos phi 0.9 (at 20 °C)	
Heat dissipation	38 W for control circuit	
Operating time	2050 ms on closing 620 ms on opening	
Maximum operating rate	1200 cyc/h 55 °C	
Connections - terminals	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 10120 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 10120 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 12.5 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 10120 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 10120 mm ² - cable stiffness: solid without cable end	
Tightening torque	Power circuit: 12 N.m Control circuit: 1.2 N.m	
Auxiliary contact composition	1 NO + 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	EAC CE	
IP degree of protection	IP2X conforming to IEC 60529	
Protective treatment	TH (pollution degree 3) 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	

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Fire resistance	850 °C conforming to IEC 60695-2-1 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)	
Mechanical robustness		
Height	158 mm	
Width	120 mm	
Depth	132 mm	
Net weight	2.3 kg	

Packing Units

-	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	18.000 cm
Package 1 Width	17.000 cm
Package 1 Length	21.000 cm
Package 1 Weight	2.406 kg
Unit Type of Package 2	S06
Number of Units in Package 2	24
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	70.744 kg

Contractual warranty

Warranty

18 months

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

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

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Time delay auxiliary contact block

Terminal block





Offer Marketing Illustration

Product benefits / Features



Technical Illustration

Assembly's dimensions



