Product datasheet

Specifications





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

LC1E2510M5WB

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	
[le] rated operational current	25 A (at <55 °C) at <= 440 V AC-3 for power circuit 36 A (at <55 °C) at <= 440 V AC-1 for power circuit	
[Uc] control circuit voltage	220 V AC 50 Hz	

Complementary

Complementary	
Motor power kW	5.5 kW at 220230 V AC 50/60 Hz 11 kW at 380400 V 11 kW at 415 V 11 kW at 440 V 15 kW at 500 V 15 kW at 660690 V
Pole contact composition	3 NO
[Ith] conventional free air thermal current	36 A (at 55 °C)
Irms rated making capacity	250 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	200 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand current	240 A 40 °C - 10 s for power circuit 120 A 40 °C - 60 s for power circuit 50 A 40 °C - 600 s for power circuit
Associated fuse rating	40 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 36 A 50 Hz for power circuit
Power dissipation per pole	1.6 W AC-3 3.2 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

Disclaimer. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Mechanical durability	10000000 cycles	
Electrical durability	1200000 cycles AC-3 350000 cycles AC-1	
Control circuit type	AC at 50 Hz wide range	
Control circuit voltage limits	0.30.6 Uc (-555 °C):drop-out 50 Hz 0.71.25 Uc (-555 °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	23 W for control circuit	
Operating time 1222 ms on closing 419 ms on opening		
Maximum operating rate 1800 cyc/h 60 °C		
Connections - terminals	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 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 Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: solid Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: solid	
Tightening torque	Control circuit: 1.2 N.m Power circuit: 1.5 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	Plate DIN rail	

Environment

Standards	IEC 60947-1 IEC 60947-4-1 IEC 60947-5-1	
product certifications	EAC CE	
IP degree of protection	ion IP20 conforming to IEC 60529	
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	Vibrations contactor open (1.5 Gn, 5300 Hz) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms) Shocks contactor open (6 Gn for 11 ms)	
Height	74 mm	

Width	45 mm
Depth	85 mm
Net weight	0.36 kg

Packing Units

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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	354.0 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



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Ø	Reach Free Of Svhc	
⊘	Toxic Heavy Metal Free	
	Mercury Free	
②	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