Product datasheet

Specification





Easy TeSys contactor 3P(3 NO) - AC-3 - 400 V 50A - 415 V AC coil wide range

LC1E40B10N5WB

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	50 A (at <60 °C) at <= 440 V AC-1 for power circuit 40 A (at <60 °C) at <= 440 V AC-3 for power circuit	
[Uc] control circuit voltage	415 V AC 50 Hz	

Complementary

Motor power kW	18.5 kW at 500 V	
·	18.5 kW at 660690 V	
	9 kW at 220230 V AC 50/60 Hz	
	18.5 kW at 380400 V	
	18.5 kW at 415 V	
	18.5 kW at 440 V	
Pole contact composition	3 NO	
Irms rated making capacity	400 A at 440 V AC for power circuit conforming to IEC 60947-4-1	
Rated breaking capacity	320 A at 440 V for power circuit conforming to IEC 60947	
[Icw] rated short-time withstand	60 A 40 °C - 600 s for power circuit	
current	310 A 40 °C - 10 s for power circuit	
	150 A 40 °C - 60 s for power circuit	
Associated fuse rating	63 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 50 A 50 Hz for power circuit	
Power dissipation per pole	2.9 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	350000 cycles AC-1
	800000 cycles AC-3
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	8.5 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: 2.1 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

Environment

Standards	IEC 60947-4-1 IEC 60947-5-1	
Product certifications	EAC	
IP degree of protection	IP20 conforming to IEC 60529	
Protective treatment TH conforming to IEC 60068		
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	84 mm	
Width	56 mm	
Depth 86 mm		

Net weight 0.45 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.0 cm
Package 1 Width	6.0 cm
Package 1 Length	9.0 cm
Package 1 Weight	450.0 g



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Transparency RoHS/REACh

Well-being performance

②	Reach Free Of Svhc	
②	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
Circularity Profile	End of Life Information

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