## **Product datasheet**

Specification





# Easy TeSys contactor 3P(3 NO) - AC-3 - <= 440 V 50A - 24 V AC coil

LC1E50B7

#### 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	50 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 70 A (at <55 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] control circuit voltage	ol circuit voltage 24 V AC 50/60 Hz	

### Complementary

Motor power kW	15 kW at 220230 V AC 50/60 Hz
·	22 kW at 380400 V
	25 kW at 415 V
	30 kW at 440 V
	30 kW at 500 V
	33 kW at 660690 V
	33 KVV at 000090 V
Pole contact composition	3 NO
[Ith] conventional free air thermal current	70 A (at 55 °C)
Irms rated making capacity	500 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	400 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand	400 A 40 °C - 10 s for power circuit
current	208 A 40 °C - 60 s for power circuit
	84 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
	100 A gG at <= 690 V coordination type 1 for power circuit
Average impedance	1.5 mOhm - Ith 70 A 50 Hz for power circuit
Power dissipation per pole	3.8 W AC-3
	7.4 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	5000000 cycles	
Electrical durability	350000 cycles AC-1 900000 cycles AC-3	
Control circuit type	AC at 50/60 Hz	
Control circuit voltage limits	0.851.1 Uc (-555 °C):operational 50/60 Hz 0.30.6 Uc (-555 °C):drop-out 50/60 Hz	
Inrush power in VA	160 VA 50 Hz cos phi 0.75 (at 20 °C) 140 VA 60 Hz cos phi 0.75 (at 20 °C)	
Hold-in power consumption in VA	15 VA 50 Hz cos phi 0.3 (at 20 °C) 13 VA 60 Hz cos phi 0.3 (at 20 °C)	
Heat dissipation	610 W for control circuit	
Operating time	2026 ms on closing 812 ms on opening	
Maximum operating rate	1200 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 Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 2.525 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.516 mm² - cable stiffness: solid without cable end	
Tightening torque	Control circuit: 1.2 N.m Power circuit: 5 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	DIN rail Plate	
Environment		
Standards	IEC 60947-1 IEC 60947-4-1 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	
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 open (6 Gn for 11 ms)	
	Shocks contactor closed (7 Gn for 11 ms)	
Height	127 mm	
Width	75 mm	
Depth	114 mm	
Net weight	veight 0.98 kg	

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.4 cm
Package 1 Width	7.5 cm
Package 1 Length	12.7 cm
Package 1 Weight	980.0 a

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Transparency RoHS/REACh

#### Well-being performance

<b>⊘</b>	Reach Free Of Svhc	
<b>9</b>	Toxic Heavy Metal Free	
<b>②</b>	Mercury Free	
<b>⊘</b>	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