# **Product datasheet**

Specification





Contactor, Easy TeSys
Control, LC1E,
3P(3NO), AC-3, <= 440V, 18A, 24V
AC coil, 50Hz, 1NC auxiliary contact

LC1E1801B5

### 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	32 A (at <55 °C) at <= 415 V AC AC-1 for power circuit 18 A (at <55 °C) at <= 440 V AC AC-3 for power circuit	
[Uc] Control Circuit Voltage	24 V AC 50 Hz	

### Complementary

Motor Power Kw	4 kW at 220230 V AC 50/60 Hz
	7.5 kW at 380400 V
	9 kW at 415 V
	9 kW at 440 V
	10 kW at 500 V
	10 kW at 660690 V
	10 KW at 000030 V
Pole Contact Composition	3 NO
[Ith] Conventional Free Air Thermal Current	32 A (at 55 °C)
Irms Rated Making Capacity	180 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated Breaking Capacity	144 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	145 A 40 °C - 10 s for power circuit
Current	84 A 40 °C - 60 s for power circuit
	40 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
	35 A gG at <= 690 V coordination type 1 for power circuit
Average Impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
Power Dissipation Per Pole	0.81 W AC-3
	2.6 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	10000000 cycles
Electrical Durability	300000 cycles AC-1 1200000 cycles AC-3
Control Circuit Type	AC at 50 Hz
Control Circuit Voltage Limits	0.851.1 Uc (-555 °C):operational 50 Hz 0.30.6 Uc (-555 °C):drop-out 50 Hz
Inrush Power In Va	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 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) 8.5 VA 60 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	Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with 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: 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 1.56 mm² - cable stiffness: solid without cable end  Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: solid without cable end
Tightening Torque	Power circuit: 1.2 N.m Control circuit: 1.2 N.m
Auxiliary Contact Composition	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 60947-5-1 IEC 60947-4-1 IEC 60947-1
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 (7 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms)	
Height	74 mm	
Width	45 mm	
Depth	80 mm	
Net Weight	0.3 kg	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.31 cm
Package 1 Width	7.4 cm
Package 1 Length	4.82 cm
Package 1 Weight	349 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
Package 2 Weight	12.972 kg

### **Contractual warranty**

Warranty 18 months



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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