

Product datasheet

Specifications



Contactor, Easy TeSys Control, LC1E, 3P(3NO), AC-3/ AC-3e, <=440V, 80A, 24V DC coil

LC1E80BD

⚠ Discontinued on: 4 Aug 2025

⚠ Discontinued

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-3 AC-3e AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: <= 690 V AC 50/60 Hz
[Ie] rated operational current	80 A (at <55 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <55 °C) at <= 440 V AC AC-3e for power circuit 110 A (at <55 °C) at <= 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	24 V DC

Complementary

Motor power kW	22 kW at 220/230 V AC 50/60 Hz 37 kW at 380/400 V AC 50/60 Hz 45 kW at 415/440 V AC 50/60 Hz 45 kW at 500 V AC 50/60 Hz 45 kW at 660/690 V AC 50/60 Hz 45 kW at 660...690 V AC 50/60 Hz
Pole contact composition	3 NO
[Ith] conventional free air thermal current	110 A (at 55 °C) for power circuit
Irms rated making capacity	960 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	680 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	640 A 40 °C - 10 s for power circuit 320 A 40 °C - 60 s for power circuit 135 A 40 °C - 600 s for power circuit
Associated fuse rating	160 A gG at <= 690 V coordination type 1 for power circuit 10 A gG at <= 690 V for auxiliary contact circuit conforming to IEC 60947-5-1
Average impedance	0.8 mOhm - Ith 110 A 50 Hz for power circuit
Power dissipation per pole	5.1 W AC-3 9.7 W AC-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III

Excluding VAT, FCA Jabal Ali & amp; are subject to change – check with your local distributor.

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

Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV coil not connected to the power circuit conforming to IEC 60947
Mechanical durability	3000000 cycles
Electrical durability	900000 cycles AC-3 at Ue <= 440 V 350000 cycles AC-1 at Ue <= 440 V
Control circuit type	DC
Control circuit voltage limits	0.85...1.1 Uc (-5...55 °C):operational DC 0.1...0.25 Uc (-5...55 °C):drop-out DC
Inrush power in W	22 W (at 20 °C)
Hold-in power consumption in W	22 W at 20 °C
Operating time	95...130 ms on closing 20...35 ms on opening
Maximum operating rate	1200 cyc/h 60 °C
Connections - terminals	Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 4...16 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 4...25 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 4...50 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 4...25 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 4...50 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without cable end
Tightening torque	Power circuit: 12 N.m Control circuit: 1.7 N.m
Auxiliary contact composition	1 NO + 1 NC
Minimum switching voltage	17 V for auxiliary contact circuit
Minimum switching current	5 mA for auxiliary contact circuit
Insulation resistance	> 10 MOhm for auxiliary contact 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	EN/IEC 60947-1 EN/IEC 60947-4-1 EN/IEC 60947-5-1 GB/T 14048.1 GB/T 14048.4 GB/T 14048.5
Product certifications	CB Scheme CCC CE EAC

IP degree of protection	IP20 conforming to IEC 60529
Protective treatment	TH conforming to IEC 60068-2-30 test Db
Permissible ambient air temperature around the device	-20...70 °C at Uc -60...80 °C storage -5...55 °C operation
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Mechanical robustness	Shocks contactor open (5 Gn for 11 ms) conforming to IEC 60068-2-7 Shocks contactor closed (7 Gn for 11 ms) conforming to IEC 60068-2-7 Vibrations contactor open (1.5 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (3 Gn, 5...300 Hz) conforming to IEC 60068-2-6
Height	181 mm
Width	85 mm
Depth	126 mm
Product weight	2.39 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	11.000 cm
Package 1 Width	16.000 cm
Package 1 Length	22.500 cm
Package 1 Weight	2.594 kg
Unit Type of Package 2	S02
Number of Units in Package 2	2
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	5.494 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	1 996 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	15 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 975 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	5 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	2fb19403-8b8e-4bd9-aa73-2a9279012fd7
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	81
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

Technical Illustration

Assembly's dimensions

