

Product datasheet

Specifications



Contactor, Easy TeSys Control, LC1E, 4P(4NO), AC-2, 80A, 220V

LC1E65004M7

Main

Range	Easy TeSys
Range of product	Easy TeSys Control
Product or component type	Contactor
Device short name	LC1E
Contactor application	Resistive load
Utilisation category	AC-1
Poles description	4P
[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-1 for power circuit
[Uc] control circuit voltage	220 V AC 50/60 Hz

Complementary

Pole contact composition	4 NO
[Ith] conventional free air thermal current	80 A (at 55 °C) for power circuit
Irms rated making capacity	650 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	520 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	520 A 40 °C - 10 s for power circuit 260 A 40 °C - 60 s 110 A 40 °C - 600 s
Associated fuse rating	125 A gG at <= 690 V coordination type 1 for power circuit conforming to IEC 60947-5-1
Average impedance	1 mOhm - Ith 80 A 50 Hz for power circuit
Power dissipation per pole	4.2 W AC-3 6.4 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 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	0.85...1.1 Uc (-5...55 °C):operational 50/60 Hz 0.3...0.6 Uc (-5...55 °C):drop-out 50/60 Hz

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

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	6...10 W for control circuit
Operating time	20...26 ms on closing 8...12 ms on opening
Maximum operating rate	1200 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 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...2.5 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 Power circuit: screw clamp terminals 1 2.5...25 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 2.5...10 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 2.5...25 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 2.5...16 mm² - cable stiffness: solid without cable end
Tightening torque	Control circuit: 1.2 N.m Power circuit: 5 N.m
Insulation resistance	> 10 MOhm for control circuit
Mounting support	DIN rail Plate

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	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	-20...70 °C at U _c -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	Vibrations contactor open (1.5 Gn, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (6 Gn for 11 ms) Shocks contactor closed (7 Gn for 11 ms)
Height	127 mm
Width	85 mm
Depth	125 mm

Net weight	1.3 kg
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Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	10.5 cm
Package 1 Width	13.5 cm
Package 1 Length	15.0 cm
Package 1 Weight	1.362 kg
Unit Type of Package 2	S02
Number of Units in Package 2	4
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	5.807 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	1 084 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	2 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	1 071 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	2 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	4ca4954b-5710-4949-8440-15cb0afd6d31

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	48
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

Offer Marketing Illustration

Product benefits / Features



Easy TeSys Contactors
Range Accessories



Mechanical
interlock



Auxiliary
contact block



Time delay auxiliary
contact block



Terminal block



Suppressor
module

Offer Marketing Illustration

Product benefits / Features

Easy TeSys Contactors
Technical Benefits



- 9 sizes cover common applications from 6A to 630A.
- Designed to meet the requirements of Electro-domestic and HVAC applications.
- Various Relay Coil Voltages; A.C.
- It can cover -5°C to 55°C working temperature and mounted by DIN-rail, No derating up to 3000m altitude.
- 2.2kW to 335kW (AC3/400V)
- Multi-standards certified (IEC, CCC, EAC) and Green Premium compliant (RoHs/Reach).

Offer Marketing Illustration

Product benefits / Features

Easy TeSys
Contactors



Designed for the essential

Deliver the best balance between performance and budget without any compromise on quality



Easy to use

Easier to install and operate with multi-standard screws



Cost-effective

Provides a cost-effective solution to a simple application



Technical Illustration

Assembly's dimensions

