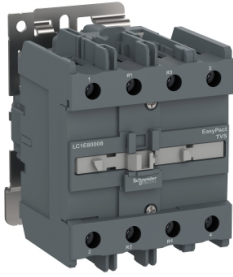


Product datasheet

Specifications



Contacteur, Easy TeSys Control, LC1E, 4P(2NO+2NC), AC-1 100A, 415V, 50Hz wide range

LC1E80008N5WB

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

Main

Range	Easy TeSys
Range of product	Easy TeSys Control
Product or component type	Contacteur
Device short name	LC1E
Contacteur 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	100 A (at ≤ 55 °C) at ≤ 440 V AC AC-1 for power circuit
[Uc] control circuit voltage	415 V AC 50 Hz

Complementary

Pole contact composition	2 NO + 2 NC
[Ith] conventional free air thermal current	100 A (at 55 °C) for power circuit
Irms rated making capacity	800 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	640 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
Average impedance	0.8 mOhm - Ith 100 A 50 Hz for power circuit
Power dissipation per pole	9.7 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	3000000 cycles
Electrical durability	350000 cycles AC-1
Control circuit type	AC at 50 Hz wide range
Control circuit voltage limits	0.3...0.6 U _c (-5...55 °C):drop-out 50 Hz 0.7...1.25 U _c (-5...55 °C):operational 50 Hz
Inrush power in VA	200 VA 50 Hz cos phi 0.75 (at 20 °C)

Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	6...10 W for control circuit
Operating time	6...20 ms on opening 20...35 ms on closing
Maximum operating rate	1200 cyc/h 60 °C
Connections - terminals	Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 4...50 mm ² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 4...16 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: solid Power circuit: screw clamp terminals 1 4...50 mm ² - cable stiffness: solid Power circuit: screw clamp terminals 2 4...50 mm ² - cable stiffness: solid
Tightening torque	Control circuit: 1.2 N.m Power circuit: 12 N.m
Auxiliary contact composition	Without
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
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	95 mm
Depth	120 mm
Net weight	1.6 kg

Packing Units

Unit Type of Package 1	PCE
-------------------------------	-----

Number of Units in Package 1 1

Contractual warranty

Warranty (in months) 18



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

Environmental Disclosure

[Product Environmental Profile](#)

Use Better



Materials and Substances

EU RoHS Directive

[Compliant](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins