

# Product datasheet

Specifications



Contactor, Easy TeSys  
Control, LC1N,  
4P(2NO+2NC), AC-1,  $\leq 415\text{V}$ , 25A,  
415V, 50Hz wide range, India, SM

LC1E09008N5WBSIN

## 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: $\leq 690\text{ V AC } 50/60\text{ Hz}$
[Ie] rated operational current	25 A (at $<40\text{ }^\circ\text{C}$ ) at $\leq 415\text{ V AC AC-1}$ for power circuit
[Uc] control circuit voltage	415 V AC 50 Hz

## Complementary

Pole contact composition	2 NO + 2 NC
Irms rated making capacity	90 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated breaking capacity	72 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	105 A $40\text{ }^\circ\text{C}$ - 10 s for power circuit 61 A $40\text{ }^\circ\text{C}$ - 60 s for power circuit 30 A $40\text{ }^\circ\text{C}$ - 600 s for power circuit
Associated fuse rating	12 A gG at $\leq 690\text{ V}$ coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	1.6 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 conforming to IEC 60947
Mechanical durability	10000000 cycles
Electrical durability	150000 cycles AC-1
Control circuit type	AC at 50 Hz wide range
Control circuit voltage limits	0.3...0.6 U <sub>c</sub> ( $-5\text{...}55\text{ }^\circ\text{C}$ ):drop-out 50 Hz 0.7...1.25 U <sub>c</sub> ( $-5\text{...}55\text{ }^\circ\text{C}$ ):operational 50 Hz
Inrush power in VA	95 VA 50 Hz cos phi 0.75 (at $20\text{ }^\circ\text{C}$ )
Hold-in power consumption in VA	8.5 VA 50 Hz cos phi 0.3 (at $20\text{ }^\circ\text{C}$ )

<b>Heat dissipation</b>	2...3 W for control circuit
<b>Operating time</b>	12...22 ms on closing 4...19 ms on opening
<b>Maximum operating rate</b>	1800 cyc/h 60 °C
<b>Connections - terminals</b>	Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1...6 mm <sup>2</sup> - cable stiffness: solid Power circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid Control circuit: screw clamp terminals 1 1...6 mm <sup>2</sup> - cable stiffness: solid Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid
<b>Tightening torque</b>	Power circuit: 1.2 N.m Control circuit: 1.2 N.m
<b>Auxiliary contact composition</b>	Without
<b>mounting support</b>	Plate DIN rail

## Environment

<b>Standards</b>	IEC 60947-4-1 IEC 60947-5-1
<b>product certifications</b>	EAC
<b>IP degree of protection</b>	IP20 conforming to IEC 60529
<b>Protective treatment</b>	TH conforming to IEC 60068
<b>Permissible ambient air temperature around the device</b>	-20...70 °C at U <sub>c</sub> -60...80 °C storage -5...55 °C operation
<b>Operating altitude</b>	3000 m
<b>Fire resistance</b>	850 °C conforming to IEC 60695-2-1
<b>Mechanical robustness</b>	Vibrations contactor open (1.5 Gn, 5...300 Hz) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (7 Gn for 11 ms) Shocks contactor closed (10 Gn for 11 ms)
<b>Height</b>	74 mm
<b>Width</b>	45 mm
<b>Depth</b>	80 mm
<b>Net weight</b>	0.34 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	8.0 cm
<b>Package 1 Width</b>	4.5 cm
<b>Package 1 Length</b>	7.4 cm
<b>Package 1 Weight</b>	340.0 g

## Sustainability

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Transparency RoHS/REACH

## Well-being performance

Reach Free Of Svhc

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](#)

Circularity Profile [End of Life Information](#)