

# Product datasheet

Specifications



## Easy TeSys contactor 3P(3 NO) - AC-3 - $\leq 440$ V 9A - 220 V AC coil

LC1E0901M5

### Main

Range	Easy TeSys
Range of product	Easy TeSys Control
product or component type	Contactors
Device short name	LC1E
contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1
poles description	3P
[Ue] rated operational voltage	Power circuit: $\leq 690$ V AC 50/60 Hz
[Ie] rated operational current	9 A (at $<55$ °C) at $\leq 440$ V AC AC-3 for power circuit 25 A (at $<55$ °C) at $\leq 440$ V AC AC-1 for power circuit
[Uc] control circuit voltage	220 V AC 50 Hz

### Complementary

Motor power kW	2.2 kW at 220...230 V AC 50/60 Hz 4 kW at 380...400 V 4 kW at 415 V 4 kW at 440 V 5.5 kW at 500 V 5.5 kW at 660...690 V
Pole contact composition	3 NO
[Ith] conventional free air thermal current	25 A (at 55 °C) for power circuit
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 °C - 10 s for power circuit 61 A 40 °C - 60 s for power circuit 30 A 40 °C - 600 s for power circuit
Associated fuse rating	10 A gG at $\leq 690$ V coordination type 1 for control circuit conforming to IEC 60947-5-1 20 A gG at $\leq 690$ V coordination type 1 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	0.2 W AC-3 1.6 W AC-1
[Ui] rated insulation voltage	690 V conforming to IEC 60947-4-1
Overvoltage category	III
Pollution degree	3

<b>[Uimp] rated impulse withstand voltage</b>	6 kV coil not connected to the power circuit conforming to IEC 60947
<b>Mechanical durability</b>	10000000 cycles
<b>Electrical durability</b>	1400000 cycles AC-3 150000 cycles AC-1
<b>Control circuit type</b>	AC at 50 Hz
<b>Control circuit voltage limits</b>	0.85...1.1 U <sub>c</sub> (-5...55 °C):operational 50 Hz 0.3...0.6 U <sub>c</sub> (-5...55 °C):drop-out 50 Hz
<b>Inrush power in VA</b>	95 VA 50 Hz cos phi 0.75 (at 20 °C) 95 VA 60 Hz cos phi 0.75 (at 20 °C)
<b>Hold-in power consumption in VA</b>	8.3 VA 50 Hz cos phi 0.3 (at 20 °C) 8.5 VA 60 Hz cos phi 0.3 (at 20 °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 Power circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without 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 Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end
<b>Tightening torque</b>	Power circuit: 1.2 N.m Control circuit: 1.2 N.m
<b>Auxiliary contact composition</b>	1 NC
<b>Minimum switching voltage</b>	17 V for control circuit
<b>Minimum switching current</b>	5 mA for control circuit
<b>Insulation resistance</b>	> 10 MOhm for control circuit
<b>Non-overlap time</b>	1.5 ms on energisation guaranteed between NC and NO contact 1.5 ms on de-energisation guaranteed between NC and NO contact
<b>mounting support</b>	DIN rail Plate

## Environment

<b>Standards</b>	IEC 60947-1 IEC 60947-5-1 IEC 60947-4-1
<b>Product certifications</b>	CE EAC
<b>IP degree of protection</b>	IP2X conforming to IEC 60529
<b>Protective treatment</b>	TH (pollution degree 3) conforming to IEC 60068-2-30

<b>Permissible ambient air temperature around the device</b>	-20...70 °C at Uc -60...80 °C storage -5...55 °C operation
<b>Operating altitude</b>	3000 m without derating
<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>	0.3 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>	8.700 cm
<b>Package 1 Width</b>	5.000 cm
<b>Package 1 Length</b>	7.500 cm
<b>Package 1 Weight</b>	343.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	36
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	12.873 kg

## Contractual warranty

<b>Warranty</b>	18 months
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## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Reach Free Of Svhc

Toxic Heavy Metal Free

Mercury Free

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](#)