

# Product datasheet

Specifications



## EasyPact TVS contactor 3P(3 NO) - AC-3 - $\leq 440$ V 160A - 220 V AC coil

LC1E160M5

### Main

Range	Easy TeSys
Range Of Product	Easy TeSys Control
Product Or Component Type	Contactors
Device Short Name	LC1E
Contactors Application	Resistive load Motor control
Utilisation Category	AC-1 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: $\leq 690$ V AC 50/60 Hz
[Ie] Rated Operational Current	160 A (at $\leq 55$ °C) at $\leq 440$ V AC AC-3 for power circuit 200 A (at $\leq 55$ °C) at $\leq 440$ V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	220 V AC 50 Hz

### Complementary

Motor Power Kw	45 kW at 220...230 V AC 50/60 Hz 75 kW at 380...400 V 80 kW at 415 V 80 kW at 440 V 90 kW at 500 V 100 kW at 660...690 V
Pole Contact Composition	3 NO
[Ith] Conventional Free Air Thermal Current	200 A (at 40 °C)
Irms Rated Making Capacity	1600 A at 440 V AC for power circuit conforming to IEC 60947-4-1
Rated Breaking Capacity	1280 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	1400 A 40 °C - 10 s for power circuit
Associated Fuse Rating	10 A gG at $\leq 690$ V coordination type 1 for control circuit conforming to IEC 60947-5-1 315 A gG at $\leq 690$ V coordination type 1 for power circuit
Average Impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
Power Dissipation Per Pole	24 W AC-1 15 W AC-3
[Ui] Rated Insulation Voltage	690 V conforming to IEC 60947-4-1
Overvoltage Category	III
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	8 kV coil not connected to the power circuit conforming to IEC 60947

<b>Mechanical Durability</b>	400000 cycles
<b>Electrical Durability</b>	800000 cycles AC-3 250000 cycles AC-1
<b>Control Circuit Type</b>	AC at 50 Hz
<b>Control Circuit Voltage Limits</b>	0.85...1.1 Uc (55 °C):operational 50 Hz 0.35...0.55 Uc (55 °C):drop-out 50 Hz
<b>Inrush Power In Va</b>	300 VA 50 Hz cos phi 0.9 (at 20 °C) 300 VA 60 Hz cos phi 0.9 (at 20 °C)
<b>Hold-In Power Consumption In Va</b>	22 VA 50 Hz cos phi 0.9 (at 20 °C) 22 VA 60 Hz cos phi 0.9 (at 20 °C)
<b>Heat Dissipation</b>	3...8 W for control circuit
<b>Operating Time</b>	20...50 ms on closing 6...20 ms on opening
<b>Maximum Operating Rate</b>	1200 cyc/h 55 °C
<b>Connections - Terminals</b>	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 10...120 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 10...120 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 10...120 mm <sup>2</sup> - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 10...120 mm <sup>2</sup> - cable stiffness: solid without cable end
<b>Tightening Torque</b>	Power circuit: 12 N.m Control circuit: 1.2 N.m
<b>Auxiliary Contact Composition</b>	1 NO + 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>	Plate DIN rail

## Environment

<b>Standards</b>	IEC 60947-4-1 IEC 60947-1 IEC 60947-5-1
<b>Product Certifications</b>	EAC CE
<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 test Db
<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 (6 Gn for 11 ms) Shocks contactor closed (7 Gn for 11 ms)
<b>Height</b>	158 mm
<b>Width</b>	120 mm
<b>Depth</b>	132 mm
<b>Net Weight</b>	2.3 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>	18.0 cm
<b>Package 1 Width</b>	17.0 cm
<b>Package 1 Length</b>	21.0 cm
<b>Package 1 Weight</b>	2.406 kg
<b>Unit Type Of Package 2</b>	S03
<b>Number Of Units In Package 2</b>	2
<b>Package 2 Height</b>	30 cm
<b>Package 2 Width</b>	30 cm
<b>Package 2 Length</b>	40 cm
<b>Package 2 Weight</b>	5.53 kg
<b>Unit Type Of Package 3</b>	P06
<b>Number Of Units In Package 3</b>	24
<b>Package 3 Height</b>	75.0 cm
<b>Package 3 Width</b>	80.0 cm
<b>Package 3 Length</b>	60.0 cm
<b>Package 3 Weight</b>	70.74 kg

## Contractual warranty

<b>Warranty</b>	12 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.

[Learn more about Green Premium >](#)

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



Transparency RoHS/REACH

## Well-being performance

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
Eu Rohs Directive	Compliant <a href="#">EU RoHS Declaration</a>
China Rohs Regulation	<a href="#">China RoHS declaration</a>
Environmental Disclosure	<a href="#">Product Environmental Profile</a>
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	<a href="#">End of Life Information</a>