# Product datasheet

Specifications

## EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 18A - 220 V AC coil

LC1E1810M5

## Main

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|---|---|
| **Range** | Easy TeSys |
| **Range Of Product** | Easy TeSys Control |
| **Product Or Component Type** | Contactor |
| **Device Short Name** | LC1E |
| **Contactor Application** | Resistive load<br>Motor control |
| **Utilisation Category** | AC-3<br>AC-1 |
| **Poles Description** | 3P |
| **[Ue] Rated Operational Voltage** | Power circuit: <= 690 V AC 50/60 Hz |
| **[Ie] Rated Operational Current** | 32 A (at <55 °C) at <= 415 V AC AC-1 for power circuit<br>18 A (at <55 °C) at <= 440 V AC AC-3 for power circuit |
| **[Uc] Control Circuit Voltage** | 220 V AC 50 Hz |

## Complementary

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|---|---|
| **Motor Power Kw** | 4 kW at 220...230 V AC 50/60 Hz (AC-3)<br>7.5 kW at 380...400 V AC 50/60 Hz (AC-3)<br>9 kW at 415 V AC 50/60 Hz (AC-3)<br>9 kW at 440 V AC 50/60 Hz (AC-3)<br>10 kW at 500 V AC 50/60 Hz (AC-3)<br>10 kW at 660...690 V AC 50/60 Hz (AC-3) |
| **Pole Contact Composition** | 3 NO |
| **[Ith] Conventional Free Air Thermal Current** | 32 A (at 55 °C) |
| **Irms Rated Making Capacity** | 180 A at 440 V AC for power circuit conforming to IEC 60947-4-1 |
| **Rated Breaking Capacity** | 144 A at 440 V for power circuit conforming to IEC 60947 |
| **[Icw] Rated Short-Time Withstand Current** | 145 A 40 °C - 10 s for power circuit<br>84 A 40 °C - 60 s for power circuit<br>40 A 40 °C - 600 s for power circuit |
| **Associated Fuse Rating** | 10 A gG at <= 690 V coordination type 1 for control circuit conforming to IEC 60947-5-1<br>35 A gG at <= 690 V coordination type 1 for power circuit |
| **Average Impedance** | 2.5 mOhm - Ith 32 A 50 Hz for power circuit |
| **Power Dissipation Per Pole** | 0.81 W AC-3<br>2.6 W AC-1 |
| **[Ui] Rated Insulation Voltage** | 690 V conforming to IEC 60947-4-1 |
| **Overvoltage Category** | III |
| **Pollution Degree** | 3 |

Excluding VAT, FCA Jabal Ali & are subject to change – check with your local distributor.

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

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|---|---|
| **[Uimp] Rated Impulse Withstand Voltage** | 6 kV coil not connected to the power circuit conforming to IEC 60947 |
| **Mechanical Durability** | 10000000 cycles |
| **Electrical Durability** | 300000 cycles AC-1<br>1200000 cycles AC-3 |
| **Control Circuit Type** | AC at 50 Hz |
| **Control Circuit Voltage Limits** | 0.85...1.1 Uc (-5…55 °C):operational 50 Hz<br>0.3...0.6 Uc (-5…55 °C):drop-out 50 Hz |
| **Inrush Power In Va** | 95 VA 50 Hz cos phi 0.75 (at 20 °C)<br>95 VA 60 Hz cos phi 0.75 (at 20 °C) |
| **Hold-In Power Consumption In Va** | 8.3 VA 50 Hz cos phi 0.3 (at 20 °C)<br>8.5 VA 60 Hz cos phi 0.3 (at 20 °C) |
| **Heat Dissipation** | 2…3 W for control circuit |
| **Operating Time** | 12...22 ms on closing<br>4...19 ms on opening |
| **Maximum Operating Rate** | 1800 cyc/h 60 °C |
| **Connections - Terminals** | Power circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 2 1…2.5 mm² - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1…4 mm² - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1…4 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 1 1.5…6 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 1.5…6 mm² - cable stiffness: solid without cable end |
| **Tightening Torque** | Power circuit: 1.2 N.m<br>Control circuit: 1.2 N.m |
| **Auxiliary Contact Composition** | 1 NO |
| **Minimum Switching Voltage** | 17 V for control circuit |
| **Minimum Switching Current** | 5 mA for control circuit |
| **Insulation Resistance** | > 10 MOhm for control circuit |
| **Non-Overlap Time** | 1.5 ms on energisation guaranteed between NC and NO contact<br>1.5 ms on de-energisation guaranteed between NC and NO contact |
| **Mounting Support** | Plate<br>DIN rail |

# Environment

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| **Standards** | IEC 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-1 |
| **Product Certifications** | EAC<br>CE |
| **Ip Degree Of Protection** | IP2X conforming to IEC 60529 |
| **Protective Treatment** | TH (pollution degree 3) conforming to IEC 60068-2-30 test Db |

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| **Permissible Ambient Air Temperature Around The Device** | -20…70 °C at Uc<br>-60…80 °C storage<br>-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)<br>Vibrations contactor closed (3 Gn, 5...300 Hz)<br>Shocks contactor open (7 Gn for 11 ms)<br>Shocks contactor closed (10 Gn for 11 ms) |
| **Height** | 74 mm |
| **Width** | 45 mm |
| **Depth** | 80 mm |
| **Net Weight** | 0.3 kg |

## Packing Units

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|---|---|
| **Unit Type Of Package 1** | PCE |
| **Number Of Units In Package 1** | 1 |
| **Package 1 Height** | 8.31 cm |
| **Package 1 Width** | 7.4 cm |
| **Package 1 Length** | 4.82 cm |
| **Package 1 Weight** | 349 g |
| **Unit Type Of Package 2** | S02 |
| **Number Of Units In Package 2** | 36 |
| **Package 2 Height** | 15 cm |
| **Package 2 Width** | 30 cm |
| **Package 2 Length** | 40 cm |
| **Package 2 Weight** | 12.972 kg |

## Contractual warranty

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|---|---|
| **Warranty** | 18 months |

## 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-$CO_2$ 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

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| Reach Free Of Svhc | |
| Toxic Heavy Metal Free | |
| Mercury Free | |
| Rohs Exemption Information | Yes |

## Certifications & Standards

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|---|---|
| **Reach Regulation** | REACh Declaration |
| **Eu Rohs Directive** | Compliant<br>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 |