

# Product datasheet

Specifications



## EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 12A - 415 V AC coil

LC1E1210N5

Price: 260.73 ZAR

### Main

|                                |                                                                                                                  |
|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| Range                          | Easy TeSys                                                                                                       |
| Range Of Product               | Easy TeSys Control                                                                                               |
| Product Or Component Type      | Contactors                                                                                                       |
| Device Short Name              | LC1E                                                                                                             |
| Contactors Application         | Resistive load<br>Motor control                                                                                  |
| Utilisation Category           | AC-1<br>AC-3                                                                                                     |
| Poles Description              | 3P                                                                                                               |
| [Ue] Rated Operational Voltage | Power circuit: <= 690 V AC 50/60 Hz                                                                              |
| [Ie] Rated Operational Current | 25 A (at <55 °C) at <= 440 V AC AC-1 for power circuit<br>12 A (at <55 °C) at <= 440 V AC AC-3 for power circuit |
| [Uc] Control Circuit Voltage   | 415 V AC 50 Hz                                                                                                   |

### Complementary

|                                             |                                                                                                                                                      |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor Power Kw                              | 3 kW at 220...230 V AC 50/60 Hz<br>5.5 kW at 380...400 V<br>5.5 kW at 415 V<br>5.5 kW at 440 V<br>7.5 kW at 500 V<br>7.5 kW at 660...690 V           |
| Pole Contact Composition                    | 3 NO                                                                                                                                                 |
| [Ith] Conventional Free Air Thermal Current | 25 A (at 55 °C)                                                                                                                                      |
| Irms Rated Making Capacity                  | 120 A at 440 V AC for power circuit conforming to IEC 60947-4-1                                                                                      |
| Rated Breaking Capacity                     | 96 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<br>61 A 40 °C - 60 s for power circuit<br>30 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>25 A gG at <= 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                  | 0.36 W AC-3<br>1.6 W AC-1                                                                                                                            |
| [Ui] Rated Insulation Voltage               | 690 V conforming to IEC 60947-4-1                                                                                                                    |
| Overvoltage Category                        | III                                                                                                                                                  |
| Pollution Degree                            | 3                                                                                                                                                    |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

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

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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<br>300000 cycles AC-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Control Circuit Type</b>                   | AC at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Control Circuit Voltage Limits</b>         | 0.85...1.1 Uc (-5...55 °C):operational 50 Hz<br>0.3...0.6 Uc (-5...55 °C):drop-out 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Inrush Power In Va</b>                     | 95 VA 50 Hz cos phi 0.75 (at 20 °C)<br>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)<br>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<br>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 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>Power circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid without cable end<br>Power circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid without 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 |
| <b>Tightening Torque</b>                      | Power circuit: 1.2 N.m<br>Control circuit: 1.2 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Auxiliary Contact Composition</b>          | 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <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<br>1.5 ms on de-energisation guaranteed between NC and NO contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Mounting Support</b>                       | DIN rail<br>Plate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Environment

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| <b>Standards</b>               | IEC 60947-5-1<br>IEC 60947-4-1<br>IEC 60947-1                |
| <b>Product Certifications</b>  | EAC<br>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 |

|                                                       |                                                                                                                                                                                         |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

|                              |           |
|------------------------------|-----------|
| Unit Type Of Package 1       | PCE       |
| Number Of Units In Package 1 | 1         |
| Package 1 Height             | 5.000 cm  |
| Package 1 Width              | 7.600 cm  |
| Package 1 Length             | 8.800 cm  |
| Package 1 Weight             | 350.000 g |
| Unit Type Of Package 2       | S02       |
| Number Of Units In Package 2 | 36        |
| Package 2 Height             | 15.000 cm |
| Package 2 Width              | 30.000 cm |
| Package 2 Length             | 40.000 cm |
| Package 2 Weight             | 13.057 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| 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<sub>2</sub> products.

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Transparency   RoHS/REACH

Well-being performance

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

Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant<br><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>                                                                                     |