

# Product datasheet

Specifications



## EasyPact TVS contactor 3P(3 NO) - AC-3 - <= 440 V 300A - 415 V AC coil

LC1E300N5

Price: 7,297.99 ZAR

### Main

|                                |                                                                                                                    |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Range                          | Easy TeSys                                                                                                         |
| Range Of Product               | Easy TeSys Control                                                                                                 |
| Product Or Component Type      | Contactors                                                                                                         |
| Device Short Name              | LC1E                                                                                                               |
| Contactors Application         | Motor control<br>Resistive load                                                                                    |
| 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 | 300 A (at <55 °C) at <= 440 V AC AC-3 for power circuit<br>320 A (at <40 °C) at <= 440 V AC AC-1 for power circuit |
| [Uc] Control Circuit Voltage   | 415 V AC 50 Hz                                                                                                     |

### Complementary

|                                             |                                                                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Motor Power Kw                              | 90 kW at 220...230 V AC 50/60 Hz<br>160 kW at 380...400 V<br>160 kW at 415 V<br>185 kW at 440 V<br>200 kW at 500 V<br>250 kW at 660...690 V           |
| Pole Contact Composition                    | 3 NO                                                                                                                                                  |
| [Ith] Conventional Free Air Thermal Current | 320 A (at 40 °C)                                                                                                                                      |
| Irms Rated Making Capacity                  | 3000 A at 440 V AC for power circuit conforming to IEC 60947-4-1                                                                                      |
| Rated Breaking Capacity                     | 2400 A at 440 V for power circuit conforming to IEC 60947                                                                                             |
| [Icw] Rated Short-Time Withstand Current    | 2200 A 40 °C - 10 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>500 A gG at <= 690 V coordination type 1 for power circuit |
| Average Impedance                           | 0.3 mOhm - Ith 320 A 50 Hz for power circuit                                                                                                          |
| Power Dissipation Per Pole                  | 27 W AC-3<br>31 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      | 8 kV coil not connected to the power circuit conforming to IEC 60947                                                                                  |

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

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Mechanical Durability           | 5000000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Electrical Durability           | 400000 cycles AC-1<br>500000 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>0.35...0.55 Uc (-5...55 °C):drop-out 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Inrush Power In Va              | 650 VA 50 Hz cos phi 0.9 (at 20 °C)<br>650 VA 60 Hz cos phi 0.9 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hold-In Power Consumption In Va | 10 VA 50 Hz cos phi 0.9 (at 20 °C)<br>10 VA 60 Hz cos phi 0.9 (at 20 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Heat Dissipation                | 8 W for control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operating Time                  | 40...65 ms on closing<br>100...170 ms on opening                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Maximum Operating Rate          | 1200 cyc/h 55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Connections - Terminals         | Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: flexible without cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 1 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid without cable end<br>Control circuit: screw clamp terminals 1 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: cable with lug - external diameter: 240 mm<br>Power circuit: bars 2 - busbar cross section: 5 x 30 mm |
| Tightening Torque               | Control circuit: 1.2 N.m<br>Power circuit: 35 N.m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Environment

|                                                       |                                                                                                                                                                                        |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                             | IEC 60947-1<br>IEC 60947-4-1<br>IEC 60947-5-1                                                                                                                                          |
| Product Certifications                                | EAC<br>CE                                                                                                                                                                              |
| Ip Degree Of Protection                               | IP00 conforming to IEC 60529                                                                                                                                                           |
| 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 (6 Gn for 11 ms)<br>Shocks contactor closed (7 Gn for 11 ms) |
| Height                                                | 206 mm                                                                                                                                                                                 |
| Width                                                 | 213 mm                                                                                                                                                                                 |

|            |        |
|------------|--------|
| Depth      | 219 mm |
| Net Weight | 8.5 kg |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type Of Package 1       | PCE     |
| Number Of Units In Package 1 | 1       |
| Package 1 Height             | 26.0 cm |
| Package 1 Width              | 25.0 cm |
| Package 1 Length             | 32.5 cm |
| Package 1 Weight             | 5.6 kg  |
| Unit Type Of Package 2       | S06     |
| Number Of Units In Package 2 | 10      |
| Package 2 Height             | 73.5 cm |
| Package 2 Width              | 60.0 cm |
| Package 2 Length             | 80.0 cm |
| Package 2 Weight             | 69.0 kg |

## Contractual warranty

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

Sustainability



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Transparency   RoHS/REACH

Well-being performance

 Mercury Free

 RoHS Exemption Information   [Yes](#)

Certifications & Standards

|                          |                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Reach Regulation         | <a href="#">REACH Declaration</a>                                                                                           |
| Eu Rohs Directive        | Compliant with Exemptions                                                                                                   |
| China Rohs Regulation    | <a href="#">China RoHS declaration</a><br>Product out of China RoHS scope. Substance declaration for your information       |
| 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>                                                                                     |