

# Product datasheet

Specifications



## EasyPact TVS contactor 4P(4 NO) - AC-1 - <= 415 V 60A - 415 V AC coil

LC1E65008M5WBIN

### Main

|                                |  |
|--------------------------------|--|
| Range                          | EasyPact   |
| Product or component type      | Contactor  |
| Device short name              | LC1E   |
| Contactor application          | Resistive load   |
| Utilisation category           | AC-1   |
| Poles description              | 4P   |
| [Ue] rated operational voltage | Power circuit: <= 690 V AC 50/60 Hz                    |
| [Ie] rated operational current | 85 A (at <40 °C) at <= 415 V AC AC-1 for power circuit |
| [Uc] control circuit voltage   | 220 V AC 50 Hz   |

### Complementary

|  |   |
|--|---|
| Pole contact composition                 | 2 NO + 2 NC   |
| Irms rated making capacity               | 650 A at 440 V AC for power circuit conforming to IEC 60947-4-1   |
| Rated breaking capacity                  | 520 A at 440 V for power circuit conforming to IEC 60947  |
| [Icw] rated short-time withstand current | 520 A 40 °C - 10 s for power circuit<br>260 A 40 °C - 60 s for power circuit<br>110 A 40 °C - 600 s for power circuit |
| Associated fuse rating                   | 125 A gG at <= 690 V coordination type 1 for power circuit  |
| Average impedance                        | 1 mOhm - Ith 85 A 50 Hz for power circuit   |
| Power dissipation per pole               | 6.4 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   | 6 kV conforming to IEC 60947  |
| Mechanical durability                    | 5 Mcycles   |
| Electrical durability                    | 0.35 Mcycles AC-1   |
| Control circuit type                     | AC at 50 Hz wide range  |
| Control circuit voltage limits           | 0.3...0.6 Uc (55 °C):drop-out 50 Hz<br>0.7...1.25 Uc (55 °C):operational 50 Hz  |
| Inrush power in VA                       | 160 VA 50 Hz cos phi 0.75 (at 20 °C)  |

|                                 |  |
|---------------------------------|--|
| Hold-in power consumption in VA | 15 VA 50 Hz cos phi 0.3 (at 20 °C)   |
| Heat dissipation                | 6...10 W for control circuit   |
| Operating time                  | 20...26 ms on closing<br>8...12 ms on opening  |
| Maximum operating rate          | 1200 cyc/h 60 °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 1 1...4 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Control circuit: screw clamp terminals 2 1...2.5 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 1 2.5...25 mm <sup>2</sup> - cable stiffness: flexible with cable end<br>Power circuit: screw clamp terminals 2 2.5...10 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<br>Control circuit: screw clamp terminals 2 1...4 mm <sup>2</sup> - cable stiffness: solid<br>Power circuit: screw clamp terminals 1 2.5...25 mm <sup>2</sup> - cable stiffness: solid<br>Power circuit: screw clamp terminals 2 2.5...16 mm <sup>2</sup> - cable stiffness: solid |
| Tightening torque               | Control circuit: 1.2 N.m<br>Power circuit: 5 N.m   |
| Auxiliary contact composition   | Without  |
| Mounting support                | DIN rail<br>Plate  |

## Environment

|   |  |
|---|--|
| Standards   | IEC 60947-5-1<br>IEC 60947-4-1   |
| Product certifications                                | EAC  |
| IP degree of protection                               | IP20 conforming to IEC 60529   |
| Protective treatment                                  | TH conforming to IEC 60068   |
| 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   |
| 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  | 127 mm   |
| Width   | 85 mm  |
| Depth   | 125 mm   |
| Net weight  | 1.3 kg   |

## Packing Units

|                              |         |
|------------------------------|---------|
| Unit Type of Package 1       | PCE     |
| Number of Units in Package 1 | 1       |
| Package 1 Height             | 11 cm   |
| Package 1 Width              | 8.5 cm  |
| Package 1 Length             | 12.7 cm |
| Package 1 Weight             | 1300 g  |
| Unit Type of Package 2       | S03     |
| Number of Units in Package 2 | 6       |
| Package 2 Height             | 30 cm   |
| Package 2 Width              | 30 cm   |
| Package 2 Length             | 40 cm   |

|                              |         |
|------------------------------|---------|
| Package 2 Weight             | 9.4 kg  |
| Unit Type of Package 3       | P06     |
| Number of Units in Package 3 | 48      |
| Package 3 Height             | 150 cm  |
| Package 3 Width              | 60 cm   |
| Package 3 Length             | 80 cm   |
| Package 3 Weight             | 77.2 kg |

Offer Sustainability

|                            |  |
|----------------------------|--|
| Sustainable offer status   | Green Premium product                            |
| REACH Regulation           | <a href="#">REACH Declaration</a>                |
| REACH free of SVHC         | Yes  |
| EU RoHS Directive          | Compliant<br><a href="#">EU RoHS Declaration</a> |
| Toxic heavy metal free     | Yes  |
| Mercury free               | Yes  |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>           |
| RoHS exemption information | <a href="#">Yes</a>                              |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>    |
| Circularity Profile        | <a href="#">End of Life Information</a>          |

Recommended replacement(s)