

Product datasheet

Specifications



EasyPact TVS contactor 4P(4 NO) - AC-1 - <= 415 V 80A - 415 V AC coil

LC1E80008M5WBIN

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 | 110 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 |
| [Ith] conventional free air thermal current | 110 A (at 40 °C) for power circuit |
| Irms rated making capacity | 800 A at 440 V AC for power circuit conforming to IEC 60947-4-1 |
| Rated breaking capacity | 640 A at 440 V for power circuit conforming to IEC 60947 |
| [Icw] rated short-time withstand current | 640 A 40 °C - 10 s for power circuit 320 A 40 °C - 60 s for power circuit 135 A 40 °C - 600 s for power circuit |
| Associated fuse rating | 160 A gG at <= 690 V coordination type 1 for power circuit |
| Average impedance | 0.8 mOhm - Ith 110 A 50 Hz for power circuit |
| Power dissipation per pole | 9.7 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 | 3 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 0.7...1.25 Uc (55 °C):operational 50 Hz |

| | |
|---------------------------------|--|
| Inrush power in VA | 200 VA 50 Hz cos phi 0.75 (at 20 °C) |
| Hold-in power consumption in VA | 20 VA 50 Hz cos phi 0.3 (at 20 °C) |
| Heat dissipation | 6...10 W for control circuit |
| Operating time | 6...20 ms on opening 20...35 ms on closing |
| Maximum operating rate | 1200 cyc/h 60 °C |
| Connections - terminals | Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 4...16 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 1...4 mm² - cable stiffness: solid Power circuit: screw clamp terminals 1 4...50 mm² - cable stiffness: solid Power circuit: screw clamp terminals 2 4...50 mm² - cable stiffness: solid |
| Tightening torque | Control circuit: 1.2 N.m Power circuit: 12 N.m |
| Auxiliary contact composition | Without |
| Mounting support | DIN rail Plate |

Environment

| | |
|---|--|
| Standards | IEC 60947-4-1 IEC 60947-5-1 |
| 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 -60...80 °C storage -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) Vibrations contactor closed (3 Gn, 5...300 Hz) Shocks contactor open (6 Gn for 11 ms) Shocks contactor closed (7 Gn for 11 ms) |
| Height | 127 mm |
| Width | 95 mm |
| Depth | 120 mm |
| Net weight | 1.6 kg |

Packing Units

| | |
|------------------------------|---------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 13.5 cm |
| Package 1 Width | 9.5 cm |
| Package 1 Length | 12.7 cm |
| Package 1 Weight | 1600 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 | 9.6 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 | REACH Declaration |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

Recommended replacement(s)