



Main

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| Range | EasyPact |
| Product name | EasyPact TVR |
| Product or component type | Contacteur |
| Device short name | LC1R |
| Contacteur application | Resistive load Reversing Motor control |
| Utilisation category | AC-3 AC-1 |
| Poles description | 3P |
| Power pole contact composition | 3 NO |
| [Ie] rated operational current | 20 A (at <40 °C) at <= 400 V AC AC-1 for power circuit 9 A (at <40 °C) at <= 400 V AC AC-3 for power circuit |
| [Uc] control circuit voltage | 36 V AC 50 Hz |
| Auxiliary contact composition | 1 NC |
| [Ue] rated operational voltage | Power circuit: 690 V AC 50 Hz Signalling circuit: 690 V AC 50 Hz |

Complementary

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| Motor power kW | 2.2 KW at 220/230 V AC 50 Hz 4 KW at 380/400 V AC 50 Hz 5.5 kW at 660/690 V AC 50 Hz |
| Electrical durability | 1 Mcycles 9 A AC-3 at Ue <= 440 V |
| Mechanical durability | 10 Mcycles |
| Maximum operating rate | 1200 cyc/h 40 °C |
| Operating time | 12...22 ms closing 4...19 ms opening |
| Control circuit voltage limits | Operational: 0.85...1.1 Uc Drop-out: 0.2...0.75 Uc |
| Hold-in power consumption in VA | 8.3 VA cos phi 0.3 |
| [Ith] conventional free air thermal current | 20 A (at 40 °C) for power circuit 10 A (at 40 °C) for signalling circuit |
| Average impedance | 2.5 mOhm - Ith 20 A 50 Hz for power circuit |
| Power dissipation per pole | AC-3: 0.2 W AC-1: 1.56 W |
| Heat dissipation | 2...3 W at 50 Hz |
| Irms rated making capacity | 108 A 380 V AC power circuit AC-3 IEC 60947 108 A 380 V AC power circuit AC-3 GB 14048 |
| Rated breaking capacity | 90 A at 380 V for power circuit AC-3 conforming to IEC 60947 90 A at 380 V for power circuit AC-3 conforming to GB 14048 |
| [Icw] rated short-time withstand current | 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 105 A 40 °C - 10 s for power circuit 61 A 40 °C - 1 min for power circuit 30 A 40 °C - 10 min for power circuit |

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| Associated fuse rating | 20 A gG at ≤ 690 V coordination type 1 for power circuit 10 A gG for signalling circuit conforming to IEC 60947-5-1 |
| Overvoltage category | III |
| [Ui] rated insulation voltage | Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to GB 14048.4 |
| Coil technology | Without built-in suppressor module |
| Auxiliary contacts type | Type mirror contact 1 NC conforming to IEC 60947-4-1 Type mechanically linked 1 NC conforming to IEC 60947-5-1 |
| Signalling circuit frequency | 50 Hz |
| Minimum switching current | 5 mA for signalling circuit |
| Switching voltage | 17 V for signalling circuit |
| Non-overlap time | 1.5 Ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact |
| Insulation resistance | > 10 MOhm for signalling circuit |
| Mounting support | Plate Rail |
| Connections - terminals | Power circuit: screw clamp terminals 1 1...4 mm ² - external diameter: 8 mm - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 1...4 mm ² - external diameter: 8 mm - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 1...4 mm ² - external diameter: 8 mm - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 1...2.5 mm ² - external diameter: 8 mm - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 1...4 mm ² - external diameter: 8 mm - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 1...4 mm ² - external diameter: 8 mm - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 1...2.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 1...4 mm ² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 1...4 mm ² - cable stiffness: solid without cable end |
| Tightening torque | Power circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm M3.5 Power circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 M3.5 Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 |
| Height | 74 mm |
| Width | 45 mm |
| Depth | 80 mm |
| Standards | GB 14048.4 IEC 60947-4-1 IEC 60947-1 GB 14048.1 |
| Product certifications | CCC |

Environment

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| Pollution degree | 3 |
| Protective treatment | TH conforming to IEC 60068-2-30 |
| Ambient air temperature for operation | -5...40 °C |
| Ambient air temperature for storage | -40...60 °C |
| Permissible ambient air temperature around the device | -20...55 °C at U _c |
| Operating altitude | 2000 m without derating |

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| Fire resistance | 850 °C conforming to IEC 60695-2-11 |
| Mechanical robustness | Vibrations contactor open (1.2 gn, 5...300 Hz) conforming to IEC 60068-2-6 Vibrations contactor closed (2.5 Gn, 5...300 Hz) conforming to IEC 60068-2-6 Shocks 11 ms contactor open (5 gn) conforming to IEC 60068-2-27 Shocks 11 ms contactor closed (8 gn) conforming to IEC 60068-2-27 |

Packing Units

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| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 4.5 cm |
| Package 1 Width | 8 cm |
| Package 1 Length | 7.4 cm |
| Package 1 Weight | 290 g |

Offer Sustainability

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|----------------------------|---|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| REACH free of SVHC | Yes |
| EU RoHS Directive | Compliant EU RoHS Declaration |
| Toxic heavy metal free | Yes |
| Mercury free | Yes |
| China RoHS Regulation | China RoHS Declaration |
| RoHS exemption information | Yes |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |