

Product data sheet

Specifications



bar-mounted contactor - TeSys LC1-BP - 4 poles - AC-1 440V 2000 A - coil 48V DC

LC1BP34ED31

 **Discontinued on:** Sep 28, 2021

 **Discontinued**

Main

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| Range | TeSys |
| Product Name | TeSys B |
| Product Or Component Type | Contactor |
| Device Short Name | LC1BP |
| Contactor Application | Motor-heating-lighting |
| Utilisation Category | AC-1 |
| Control Circuit Type | DC |
| Coil Type | Standard |
| Poles Description | 4P |
| Pole Contact Composition | 4 NO |
| [Ie] Rated Operational Current | 2000 A (at <40 °C) AC AC-1 for power circuit |
| Auxiliary Contact Composition | 3 NO + 1 NC |
| [Uc] Control Circuit Voltage | 48 V DC |

Complementary

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| Control Circuit Voltage Limits | Operational: 0.85...1.1 Uc Drop-out: 0.35...0.5 Uc |
| [Ui] Rated Insulation Voltage | 1000 V - for power circuit conforming to IEC 60158-1 1000 V - for power circuit conforming to IEC 60947-4 1500 V - for power circuit conforming to VDE 0110 group C |
| Mounting Mode | Fixed |
| Mounting Support | Notched mounting rails Bar support bracket |
| Connections - Terminals | Power circuit: bars 3 x - busbar cross section: 100 x 5 mm |
| Tightening Torque | Power circuit: 35 N.m - on bars |
| [Ue] Rated Operational Voltage | Power circuit: <= 1000 V AC 50/60 Hz |
| [Ith] Conventional Free Air Thermal Current | 2000 A (at 40 °C) for power circuit |
| Irms Rated Making Capacity | 15000 A at 1000 V AC for power circuit conforming to IEC 60158-1 15000 A at 1000 V AC for power circuit conforming to IEC 60947-4 |

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

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| Rated Breaking Capacity | 12000 A at 500 V for power circuit conforming to IEC 60158-1 12000 A at 500 V for power circuit conforming to IEC 60947-4 15000 A at 440 V for power circuit conforming to IEC 60158-1 15000 A at 440 V for power circuit conforming to IEC 60947-4 5000 A at 1000 V for power circuit conforming to IEC 60158-1 5000 A at 1000 V for power circuit conforming to IEC 60947-4 9000 A at 660...690 V for power circuit conforming to IEC 60158-1 9000 A at 660...690 V for power circuit conforming to IEC 60947-4 |
| Associated Fuse Rating | 1600 A aM at <= 440 V for power circuit 2000 A gI at <= 440 V for power circuit |
| Average Impedance | 0.13 mOhm - lth 2000 A 50 Hz for power circuit |
| Power Dissipation Per Pole | 520 W AC-1 - lth 2000 A |
| Inrush Power In W | 1400 W |
| Hold-In Power Consumption In W | 47 W |
| Operating Time | 100...150 ms closing 20...40 ms opening |
| Mechanical Durability | 1200000 cycles |
| Maximum Operating Rate | 120 cyc/h 55 °C |
| Height | 490 mm |
| Width | 1095 mm |
| Depth | 475 mm |
| Net Weight | 120 kg |

Environment

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|---------------------------------------|--|
| Standards | VDE 0660 NF C 63-110 IEC 60947-4 IEC 60158-1 BS 5424 |
| Product Certifications | BV CSA RINA |
| Protective Treatment | TC TH |
| Ambient Air Temperature For Operation | -5...55 °C |
| Ambient Air Temperature For Storage | -60...80 °C |
| Operating Altitude | 3000 m without derating |

Contractual warranty

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| Warranty | 18 months |
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