


# Product data sheet

Specifications



## bar-mounted contactor - TeSys LC1-BR - 4 poles - AC-1 440V 2750 A - coil 48V DC

LC1BR34ED31

 **Discontinued on:** Sep 28, 2021

 **Discontinued**

### Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Product Name                   | TeSys B                                      |
| Product Or Component Type      | Contactor                                    |
| Device Short Name              | LC1BR  |
| 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 | 2750 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

|   |   |
|---|---|
| Control Circuit Voltage Limits              | Drop-out: 0.4...0.5 Uc<br>Operational: 0.85...1.1 Ucw   |
| [Ui] Rated Insulation Voltage               | 1000 V - for power circuit conforming to IEC 60158-1<br>1000 V - for power circuit conforming to IEC 60947-4<br>1500 V - for power circuit conforming to VDE 0110 group C |
| Mounting Mode                               | Fixed   |
| Mounting Support                            | Bar support bracket<br>Notched mounting rails   |
| Connections - Terminals                     | Power circuit: bars 4 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 | 2750 A (at 40 °C) for power circuit   |
| Irms Rated Making Capacity                  | 18000 A at 1000 V AC for power circuit conforming to IEC 60158-1<br>18000 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

|                                |  |
|--------------------------------|--|
| Rated Breaking Capacity        | 11000 A at 660...690 V for power circuit conforming to IEC 60158-1<br>11000 A at 660...690 V for power circuit conforming to IEC 60947-4<br>15000 A at 500 V for power circuit conforming to IEC 60158-1<br>15000 A at 500 V for power circuit conforming to IEC 60947-4<br>18000 A at 440 V for power circuit conforming to IEC 60158-1<br>18000 A at 440 V for power circuit conforming to IEC 60947-4<br>6000 A at 1000 V for power circuit conforming to IEC 60158-1<br>6000 A at 1000 V for power circuit conforming to IEC 60947-4 |
| Associated Fuse Rating         | 2000 A aM at <= 440 V for power circuit<br>2400 A gI at <= 440 V for power circuit   |
| Average Impedance              | 0.09 mOhm - Ith 2750 A 50 Hz for power circuit   |
| Power Dissipation Per Pole     | 680 W AC-1 - Ith 2750 A  |
| Inrush Power In W              | 1400 W   |
| Hold-In Power Consumption In W | 47 W   |
| Operating Time                 | 100...150 ms closing<br>20...40 ms opening   |
| Mechanical Durability          | 1200000 cycles   |
| Maximum Operating Rate         | 120 cyc/h 55 °C  |
| Height                         | 495 mm   |
| Width                          | 1095 mm  |
| Depth                          | 475 mm   |
| Net Weight                     | 160 kg   |

## Environment

|                                       |  |
|---------------------------------------|--|
| Standards                             | IEC 60158-1<br>NF C 63-110<br>BS 5424<br>IEC 60947-4<br>VDE 0660 |
| Product Certifications                | RINA<br>BV<br>CSA  |
| Protective Treatment                  | TC<br>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

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