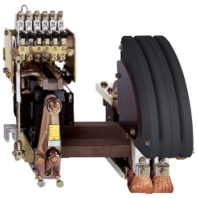
# Product datasheet

Specifications



## bar-mounted contactor - TeSys LC1-BP - 1 pole - AC-1 440V 2000 A - coil 110V DC

LC1BP31FD22

Discontinued on: 30 Jun 2020

Discontinued

## Main

| | |
|---|---|
| **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** | 1P |
| **Pole contact composition** | 1 NO |
| **[Ie] rated operational current** | 2000 A (at <40 °C) AC AC-1 for power circuit |
| **Auxiliary contact composition** | 2 NO + 2 NC |
| **[Uc] control circuit voltage** | 110 V DC |

## Complementary

| | |
|---|---|
| **Control circuit voltage limits** | Operational: 0.85...1.1 Uc<br>Drop-out: 0.35...0.5 Uc |
| **[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 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<br>15000 A at 1000 V AC for power circuit conforming to IEC 60947-4 |

| | |
|---|---|
| **Rated breaking capacity** | 12000 A at 500 V for power circuit conforming to IEC 60158-1<br>12000 A at 500 V for power circuit conforming to IEC 60947-4<br>15000 A at 440 V for power circuit conforming to IEC 60158-1<br>15000 A at 440 V for power circuit conforming to IEC 60947-4<br>5000 A at 1000 V for power circuit conforming to IEC 60158-1<br>5000 A at 1000 V for power circuit conforming to IEC 60947-4<br>9000 A at 660...690 V for power circuit conforming to IEC 60158-1<br>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<br>2000 A gI at <= 440 V for power circuit |
| **Average impedance** | 0.13 mOhm - Ith 2000 A 50 Hz for power circuit |
| **Power dissipation per pole** | 520 W AC-1 - Ith 2000 A |
| **Inrush power in W** | 520 W |
| **Hold-in power consumption in W** | 10 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** | 490 mm |
| **Width** | 415 mm |
| **Depth** | 475 mm |
| **Net weight** | 41 kg |

## Environment

| | |
|---|---|
| **Standards** | VDE 0660<br>BS 5424<br>IEC 60947-4<br>IEC 60158-1<br>NF C 63-110 |
| **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 |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 52 cm |
| **Package 1 Width** | 58 cm |
| **Package 1 Length** | 67 cm |
| **Package 1 Weight** | 48.5 kg |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Use Better

#### Materials and Substances

| | |
|---|---|
| EU RoHS Directive | Compliant |

### Use Longer

#### Lifetime extension

| | |
|---|---|
| Repair | No |

### Use Again

#### Repack and remanufacture

| | |
|---|---|
| WEEE Label | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |