

# Product data sheet

Specifications



## bar-mounted contactor - TeSys LC1-BR - 4P - AC-1 1000 V 2750 A - coil 110 VAC

LC1BR34F22

⚠ Discontinued on: May 19, 2023

⚠ 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           | AC                                                    |
| Coil type                      | Standard                                              |
| Poles description              | 4P                                                    |
| Pole contact composition       | 4 NO                                                  |
| [Ie] rated operational current | 2750 A (at <104 °F (40 °C)) AC AC-1 for power circuit |
| Auxiliary contact composition  | 2 NO + 2 NC                                           |
| [Uc] control circuit voltage   | 110 V AC 50...400 Hz                                  |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective cover                            | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Auxiliary contacts type                     | Instantaneous 2 NO + 2 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Control circuit voltage limits              | Operational: 0.85...1.1 Uc<br>Drop-out: 0.4...0.5 Uc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| [Ui] rated insulation voltage               | 1000 V - power circuit IEC 60158-1<br>1000 V - power circuit IEC 60947-4<br>1500 V - power circuit VDE 0110 group C                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Connections - terminals                     | Power circuit bars 4 x 100 x 5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Tightening torque                           | Power circuit 309.8 lbf.in (35 N.m) bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Ue] rated operational voltage              | Power circuit <= 1000 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ith] conventional free air thermal current | 2750 A (at 104 °F (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                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 |

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

|                                 |                                                                                                                                                                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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 - lth 2750 A 50 Hz for power circuit                                                                                                                                                                                                                                              |
| Power dissipation per pole      | 680 W AC-1 - lth 2750 A                                                                                                                                                                                                                                                                     |
| Inrush power in VA              | 1600 VA                                                                                                                                                                                                                                                                                     |
| Hold-in power consumption in VA | 47 VA                                                                                                                                                                                                                                                                                       |
| Operating time                  | 100...150 ms closing<br>20...40 ms opening                                                                                                                                                                                                                                                  |
| Mechanical durability           | 1200000 cycles                                                                                                                                                                                                                                                                              |
| Maximum operating rate          | 120 cyc/h 131 °F (55 °C)                                                                                                                                                                                                                                                                    |
| Rated operational power in VA   | 2000 VA 110...127 V AC-1 1000000 cycles - control circuit<br>3500 VA 500 V AC-1 1000000 cycles - control circuit<br>4000 VA 220 V AC-1 1000000 cycles - control circuit<br>4000 VA 380 V AC-1 1000000 cycles - control circuit<br>4000 VA 415...440 V AC-1 1000000 cycles - control circuit |
| Rated operational power in W    | 200 W 500 V AC 1000000 cycles - control circuit<br>230 W 440 V AC 1000000 cycles - control circuit<br>250 W 110 V AC 1000000 cycles - control circuit<br>250 W 220 V AC 1000000 cycles - control circuit                                                                                    |
| Height                          | 21.9 in (555 mm)                                                                                                                                                                                                                                                                            |
| Width                           | 18.7 in (475 mm)                                                                                                                                                                                                                                                                            |
| Depth                           | 43.1 in (1095 mm)                                                                                                                                                                                                                                                                           |
| Net Weight                      | 114.6 lb(US) (52 kg)                                                                                                                                                                                                                                                                        |

## Environment

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| Standards                             | BS 5424<br>IEC 60947-4<br>IEC 60158-1<br>NF C 63-110<br>VDE 0660 |
| Product Certifications                | BV<br>CSA<br>RINA                                                |
| Protective treatment                  | TC<br>TH                                                         |
| Ambient Air Temperature for Operation | 23...131 °F (-5...55 °C)                                         |
| Ambient Air Temperature for Storage   | -76...176 °F (-60...80 °C)                                       |
| Operating altitude                    | 9842.52 ft (3000 m) without derating                             |

## Ordering and shipping details

|                   |                                           |
|-------------------|-------------------------------------------|
| Category          | 18402-WORLD SERVICE PARTS(CONTROL ACCESS) |
| Discount Schedule | CP10                                      |
| GTIN              | 3389110103212                             |
| Returnability     | No                                        |

## Packing Units

|                        |                 |
|------------------------|-----------------|
| Unit Type of Package 1 | PCE             |
| Nbr. of units in pkg.  | 1               |
| Package 1 Height       | 22.8 in (58 cm) |

|                     |                       |
|---------------------|-----------------------|
| Package 1 Width     | 26.0 in (66 cm)       |
| Package 1 Length    | 47.2 in (120 cm)      |
| Package weight(Lbs) | 374.8 lb(US) (170 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 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. |