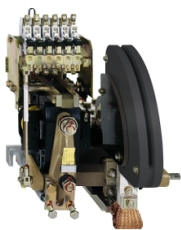


# Product datasheet

Specifications



## bar-mounted contactor - TeSys LC1-BL -1P- AC-1 1000 V 800 A - coil 415 VAC

LC1BL31N13

⚠ Discontinued on: May 11, 2020 AD

⚠ Discontinued

### Main

|                                |                                             |
|--------------------------------|---------------------------------------------|
| Range                          | TeSys                                       |
| Product name                   | TeSys B                                     |
| Product or component type      | Contacteur                                  |
| Device short name              | LC1BL                                       |
| Contacteur application         | Motor-heating-lighting                      |
| Utilisation category           | AC-1                                        |
| Control circuit type           | AC                                          |
| Coil type                      | Standard                                    |
| Poles description              | 1P                                          |
| Pole contact composition       | 1 NO                                        |
| [Ie] rated operational current | 800 A (at <40 °C) AC AC-1 for power circuit |
| Auxiliary contact composition  | 1 NO + 3 NC                                 |
| [Uc] control circuit voltage   | 415 V AC 50...400 Hz                        |

### Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective cover                            | With                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Auxiliary contacts type                     | type instantaneous 1 NO + 3 NC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Control circuit voltage limits              | Drop-out: 0.3...0.5 Uc<br>Operational: 0.85...1.1 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                                                                                                                                                                                                                                                                                                                                                            |
| Tightening torque                           | Power circuit: 21 N.m - on bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ue] rated operational voltage              | Power circuit: <= 1000 V AC 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| [Ith] conventional free air thermal current | 800 A (at 40 °C) for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Irms rated making capacity                  | 10000 A at 1000 V AC for power circuit conforming to IEC 60158-1<br>10000 A at 1000 V AC for power circuit conforming to IEC 60947-4                                                                                                                                                                                                                                                                                                                                                                                                 |
| Rated breaking capacity                     | 10000 A at 440 V for power circuit conforming to IEC 60158-1<br>10000 A at 440 V for power circuit conforming to IEC 60947-4<br>4000 A at 1000 V for power circuit conforming to IEC 60158-1<br>4000 A at 1000 V for power circuit conforming to IEC 60947-4<br>8000 A at 660...690 V for power circuit conforming to IEC 60158-1<br>8000 A at 660...690 V for power circuit conforming to IEC 60947-4<br>9000 A at 500 V for power circuit conforming to IEC 60158-1<br>9000 A at 500 V 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

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Associated fuse rating          | 1000 A gl at <= 440 V for power circuit<br>800 A aM at <= 440 V for power circuit<br>800 A gl at <= 440 V for power circuit                                                                                                                                                                                                                                                                                                                                 |
| Average impedance               | 0.18 mOhm - lth 800 A 50 Hz for power circuit                                                                                                                                                                                                                                                                                                                                                                                                               |
| Power dissipation per pole      | 115 W AC-1 - lth 800 A                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Inrush power in VA              | 620 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Hold-in power consumption in VA | 10 VA                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Operating time                  | 100...150 ms closing<br>20...40 ms opening                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Mechanical durability           | 1200000 cycles                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum operating rate          | 120 cyc/h 55 °C                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Rated operational power in VA   | 2000 VA at 110...127 V AC-1 - electrical durability: 1000000 cycles - for control circuit<br>3500 VA at 500 V AC-1 - electrical durability: 1000000 cycles - for control circuit<br>4000 VA at 220 V AC-1 - electrical durability: 1000000 cycles - for control circuit<br>4000 VA at 380 V AC-1 - electrical durability: 1000000 cycles - for control circuit<br>4000 VA at 415...440 V AC-1 - electrical durability: 1000000 cycles - for control circuit |
| Rated operational power in W    | 200 W at 500 V AC - electrical durability: 1000000 cycles - for control circuit<br>230 W at 440 V AC - electrical durability: 1000000 cycles - for control circuit<br>250 W at 110 V AC - electrical durability: 1000000 cycles - for control circuit<br>250 W at 220 V AC - electrical durability: 1000000 cycles - for control circuit                                                                                                                    |
| Height                          | 486 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Width                           | 475 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Depth                           | 475 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Product weight                  | 32 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

## Environment

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| Standards                             | NF C 63-110<br>IEC 60158-1<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                                          |

## 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             | 39.5 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 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 |