

# Product datasheet

Specifications



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

LC1BP31R13

⚠ Discontinued on: 1 Aug 2024

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### Main

Range	TeSys
Product name	TeSys B
Product or component type	Contacteur
Device short name	LC1BP
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	2000 A (at <40 °C) AC AC-1 for power circuit
Auxiliary contact composition	1 NO + 3 NC
[Uc] control circuit voltage	440 V AC 50...400 Hz

### Complementary

Control circuit voltage limits	Operational: 0.85...1.1 U <sub>c</sub> at 50...400 Hz Drop-out: 0.35...0.5 U <sub>c</sub> at 50...400 Hz
[U <sub>i</sub> ] 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
[U <sub>e</sub> ] rated operational voltage	Power circuit: ≤ 1000 V AC 50/60 Hz
[I <sub>th</sub> ] conventional free air thermal current	2000 A (at 40 °C) for power circuit
I <sub>rms</sub> 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

<b>Rated breaking capacity</b>	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
<b>Associated fuse rating</b>	1600 A aM at <= 440 V for power circuit 2000 A gI at <= 440 V for power circuit
<b>Average impedance</b>	0.13 mOhm - Ith 2000 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	520 W AC-1 - Ith 2000 A
<b>Inrush power in VA</b>	620 VA
<b>Hold-in power consumption in VA</b>	10 VA 50/60 Hz
<b>Operating time</b>	100...150 ms closing 50...100 ms opening
<b>Mechanical durability</b>	1200000 cycles
<b>Maximum operating rate</b>	120 cyc/h 55 °C
<b>Height</b>	490 mm
<b>Width</b>	415 mm
<b>Depth</b>	475 mm
<b>Net weight</b>	41 kg

## Environment

<b>Standards</b>	BS 5424 VDE 0660 IEC 60947-4 NF C 63-110 IEC 60158-1
<b>Product certifications</b>	RINA CSA BV
<b>Protective treatment</b>	TC TH
<b>Ambient air temperature for operation</b>	-5...55 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Operating altitude</b>	3000 m without derating



## 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