

# Product datasheet

Specifications



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

LC1BR31ED31

⚠ Discontinued on: 1 Aug 2024

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### Main

Range	TeSys
Product name	TeSys B
Product or component type	Contacteur
Device short name	LC1BR
Contacteur 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	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 U <sub>c</sub> Operational: 0.85...1.1 U <sub>cw</sub>
[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	Bar support bracket 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
[U <sub>e</sub> ] rated operational voltage	Power circuit: ≤ 1000 V AC 50/60 Hz
[I <sub>th</sub> ] conventional free air thermal current	2750 A (at 40 °C) for power circuit
I <sub>rms</sub> rated making capacity	18000 A at 1000 V AC for power circuit conforming to IEC 60158-1 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

<b>Rated breaking capacity</b>	11000 A at 660...690 V for power circuit conforming to IEC 60158-1 11000 A at 660...690 V for power circuit conforming to IEC 60947-4 15000 A at 500 V for power circuit conforming to IEC 60158-1 15000 A at 500 V for power circuit conforming to IEC 60947-4 18000 A at 440 V for power circuit conforming to IEC 60158-1 18000 A at 440 V for power circuit conforming to IEC 60947-4 6000 A at 1000 V for power circuit conforming to IEC 60158-1 6000 A at 1000 V for power circuit conforming to IEC 60947-4
<b>Associated fuse rating</b>	2000 A aM at <= 440 V for power circuit 2400 A gI at <= 440 V for power circuit
<b>Average impedance</b>	0.09 mOhm - Ith 2750 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	680 W AC-1 - Ith 2750 A
<b>Inrush power in W</b>	520 W
<b>Hold-in power consumption in W</b>	10 W
<b>Operating time</b>	100...150 ms closing 20...40 ms opening
<b>Mechanical durability</b>	1200000 cycles
<b>Maximum operating rate</b>	120 cyc/h 55 °C
<b>Height</b>	495 mm
<b>Width</b>	475 mm
<b>Depth</b>	475 mm
<b>Net weight</b>	52 kg

## Environment

<b>Standards</b>	IEC 60947-4 IEC 60158-1 NF C 63-110 BS 5424 VDE 0660
<b>Product certifications</b>	RINA BV CSA
<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