

# Product datasheet

Specifications



## bar-mounted contactor - TeSys LC1-BM - 1 pole - AC-1 440V 1250 A - coil 110V DC

LC1BM31FD31

⚠ Discontinued on: 1 Aug 2024

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### Main

Range	TeSys
Product name	TeSys B
Product or component type	Contacteur
Device short name	LC1BM
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	1250 A (at <40 °C) AC AC-1 for power circuit
Auxiliary contact composition	3 NO + 1 NC
[Uc] control circuit voltage	110 V DC

### Complementary

Control circuit voltage limits	Drop-out: 0.3...0.5 U <sub>c</sub> Operational: 0.85...1.1 U <sub>c</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
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	1250 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 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 10000 A at 440 V for power circuit conforming to IEC 60947-4 4000 A at 1000 V for power circuit conforming to IEC 60158-1 4000 A at 1000 V for power circuit conforming to IEC 60947-4 8000 A at 660...690 V for power circuit conforming to IEC 60158-1 8000 A at 660...690 V for power circuit conforming to IEC 60947-4 9000 A at 500 V for power circuit conforming to IEC 60158-1 9000 A at 500 V for power circuit conforming to IEC 60947-4

<b>Associated fuse rating</b>	1200 A aM at ≤ 440 V for power circuit 1200 A gI at ≤ 440 V for power circuit 1500 A gI at ≤ 440 V for power circuit
<b>Average impedance</b>	0.18 mOhm - Ith 1250 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	280 W AC-1 - Ith 1250 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>	490 mm
<b>Width</b>	375 mm
<b>Depth</b>	475 mm
<b>Net weight</b>	31 kg

## Environment

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