

# Product datasheet

Specifications



## bar-mounted contactor-TeSys LC1-BM-1P-AC-11000V1250A-coil380VAC

LC1BM31Q31

⚠ Discontinued on: May 11, 2020 AD

⚠ Discontinued

### 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	AC
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	380 V AC 50...400 Hz

### Complementary

Protective cover	With
Auxiliary contacts type	type instantaneous 3 NO + 1 NC
Control circuit voltage limits	Drop-out: 0.3...0.5 Uc Operational: 0.85...1.1 Uc
[Ui] 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
Tightening torque	Power circuit: 35 N.m - on bars
[Ue] rated operational voltage	Power circuit: ≤ 1000 V AC 50/60 Hz
[Ith] conventional free air thermal current	1250 A (at 40 °C) for power circuit
Rms 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 VA</b>	620 VA
<b>Hold-in power consumption in VA</b>	10 VA
<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>Rated operational power in VA</b>	2000 VA at 110...127 V AC-1 - electrical durability: 1000000 cycles - for control circuit 3500 VA at 500 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 220 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 380 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 415...440 V AC-1 - electrical durability: 1000000 cycles - for control circuit
<b>Rated operational power in W</b>	200 W at 500 V AC - electrical durability: 1000000 cycles - for control circuit 230 W at 440 V AC - electrical durability: 1000000 cycles - for control circuit 250 W at 110 V AC - electrical durability: 1000000 cycles - for control circuit 250 W at 220 V AC - electrical durability: 1000000 cycles - for control circuit
<b>Height</b>	500 mm
<b>Width</b>	475 mm
<b>Depth</b>	375 mm
<b>Product weight</b>	31 kg

## Environment

<b>Standards</b>	NF C 63-110 BS 5424 IEC 60947-4 IEC 60158-1 VDE 0660
<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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	52 cm
<b>Package 1 Width</b>	58 cm
<b>Package 1 Length</b>	67 cm
<b>Package 1 Weight</b>	38.5 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