

Product datasheet

Specifications



bar-mounted contactor - TeSys LC1 - BM - 1 pole - AC-1 440V 1250A - coil 220VAC

LC1BM31M22

⚠ Discontinued on: 30 Sept 2019

⚠ 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	2 NO + 2 NC
[Uc] control circuit voltage	220 V AC 50...400 Hz

Complementary

Control circuit voltage limits	Drop-out: 0.3...0.5 U _c at 50...400 Hz Operational: 0.85...1.1 U _c at 50...400 Hz
[U _i] 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
Tightening torque	Power circuit: 35 N.m - on bars
[U _e] rated operational voltage	Power circuit: ≤ 1000 V AC 50/60 Hz
[I _{th}] 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

Associated fuse rating	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
Average impedance	0.18 mOhm - lth 1250 A 50 Hz for power circuit
Power dissipation per pole	280 W AC-1 - lth 1250 A
Inrush power in VA	620 VA
Hold-in power consumption in VA	10 VA 50/60 Hz
Operating time	100...150 ms closing 50...100 ms opening
Mechanical durability	1200000 cycles
Maximum operating rate	120 cyc/h 55 °C
Height	490 mm
Width	375 mm
Depth	475 mm
Net weight	31 kg

Environment

Standards	VDE 0660 IEC 60158-1 BS 5424 IEC 60947-4 NF C 63-110
Product certifications	RINA CSA BV
Protective treatment	TC 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	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