

Product datasheet

Specifications



bar-mounted contactor - TeSys LC1-BP - 1 pole - AC-1 440V 2000 A - coil 48V DC

LC1BP31ED31

⚠ Discontinued on: 1 Aug 2024

⚠ Discontinued

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	DC
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	3 NO + 1 NC
[Uc] control circuit voltage	48 V DC

Complementary

Control circuit voltage limits	Operational: 0.85...1.1 Uc Drop-out: 0.35...0.5 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
Mounting mode	Fixed
Mounting support	Bar support bracket Notched mounting rails
Connections - terminals	Power circuit: bars 3 x - busbar cross section: 100 x 5 mm
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	2000 A (at 40 °C) for power circuit
Irms 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

Rated breaking capacity	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
Associated fuse rating	1600 A aM at <= 440 V for power circuit 2000 A gI at <= 440 V for power circuit
Average impedance	0.13 mOhm - Ith 2000 A 50 Hz for power circuit
Power dissipation per pole	520 W AC-1 - Ith 2000 A
Inrush power in W	520 W
Hold-in power consumption in W	10 W
Operating time	100...150 ms closing 20...40 ms opening
Mechanical durability	1200000 cycles
Maximum operating rate	120 cyc/h 55 °C
Height	490 mm
Width	415 mm
Depth	475 mm
Net weight	41 kg

Environment

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



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