

# Product datasheet

Specifications



## bar-mounted contactor - TeSys LC1-BL - 1 pole - AC-1 440V 800 A - coil 440V AC

LC1BL31R22

⚠ Discontinued on: 1 Aug 2024

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### Main

Range	TeSys
Product name	TeSys B
Product or component type	Contacteur
Device short name	LC1BL
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	800 A (at <40 °C) AC AC-1 for power circuit
Auxiliary contact composition	2 NO + 2 NC
[Uc] control circuit voltage	440 V AC 50...400 Hz

### Complementary

Control circuit voltage limits	Drop-out: 0.3...0.5 U <sub>c</sub> at 50...400 Hz Operational: 0.85...1.1 U <sub>c</sub> at 50...400 Hz
[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	Notched mounting rails Bar support bracket
Tightening torque	Power circuit: 21 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	800 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>	1000 A gI at <= 440 V for power circuit 800 A aM at <= 440 V for power circuit 800 A gI at <= 440 V for power circuit
<b>Average impedance</b>	0.18 mOhm - lth 800 A 50 Hz for power circuit
<b>Power dissipation per pole</b>	115 W AC-1 - lth 800 A
<b>Inrush power in VA</b>	620 VA
<b>Hold-in power consumption in VA</b>	10 VA 50/60 Hz
<b>Operating time</b>	100...150 ms closing 50...100 ms opening
<b>Mechanical durability</b>	1200000 cycles
<b>Maximum operating rate</b>	120 cyc/h 55 °C
<b>Height</b>	486 mm
<b>Width</b>	375 mm
<b>Depth</b>	475 mm
<b>Net weight</b>	32 kg

## Environment

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