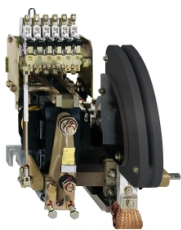


Product data sheet

Specifications



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

LC1BL31R31

⚠ Discontinued on: 30 Aug 2021

⚠ End-of-service on: 14 Feb 2022

⚠ Discontinued

Main

Range	TeSys
Product name	TeSys B
Product or component type	Contactors
Device short name	LC1BL
Contactors 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	3 NO + 1 NC
[Uc] control circuit voltage	440 V AC 50...400 Hz

Complementary

Control circuit voltage limits	Drop-out: 0.3...0.5 Uc at 50...400 Hz Operational: 0.85...1.1 Uc at 50...400 Hz
[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	Notched mounting rails Bar support bracket
Tightening torque	Power circuit: 21 N.m - on bars
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 50/60 Hz
[Ith] 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

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

Associated fuse rating	1000 A gl at <= 440 V for power circuit 800 A aM at <= 440 V for power circuit 800 A gl at <= 440 V for power circuit
Average impedance	0.18 mOhm - lth 800 A 50 Hz for power circuit
Power dissipation per pole	115 W AC-1 - lth 800 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	486 mm
Width	375 mm
Depth	475 mm
Product weight	32 kg

Environment

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