

Product data sheet

Specifications



bar-mounted contactor - TeSys LC1-BL - 4 poles - AC-1 440V 800 A - coil 48V DC

LC1BL34ED31

! Discontinued

! Discontinued on: 30 Aug 2021

! End-of-service on: 14 Feb 2022

Main

Range	TeSys
Product name	TeSys B
Product or component type	Contactor
Device short name	LC1BL
Contactor application	Motor-heating-lighting
Utilisation category	AC-1
Control circuit type	DC
Coil type	Standard
Poles description	4P
Pole contact composition	4 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	48 V DC

Complementary

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
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 W	1400 W
Hold-in power consumption in W	47 W
Operating time	100...150 ms closing 20...40 ms opening
Mechanical durability	1200000 cycles
Maximum operating rate	120 cyc/h 55 °C
Height	486 mm
Width	790 mm
Depth	475 mm
Product weight	72 kg

Environment

Standards	VDE 0660 IEC 60158-1 BS 5424 NF C 63-110 IEC 60947-4
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.

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[How we assess product sustainability >](#)

Use Longer

Lifetime extension	
Repair	No