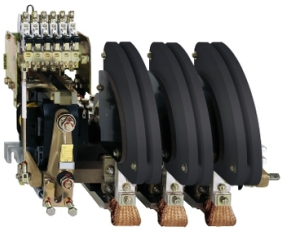
Product datasheet

Specifications

Green Premium™



bar-mounted contactor - TeSys LC1-BL - 3 poles - AC-3 440V 750 A - coil 110V AC

LC1BL33F22

Discontinued on: 12 Dec 2017

End-of-service on: 28 Sept 2021

Discontinued

Main

Range	TeSys
Product Name	TeSys B
Product Or Component Type	Contactor
Device Short Name	LC1BL
Contactor Application	Motor-heating-lighting
Utilisation Category	AC-4 AC-3 AC-1
Control Circuit Type	AC
Coil Type	Standard
Poles Description	3P
Pole Contact Composition	3 NO
[Ie] Rated Operational Current	800 A (at <40 °C) AC AC-1 for power circuit 750 A (at <55 °C) AC AC-3 for power circuit
Motor Power Kw	220 kW at 220...230 V AC 50/60 Hz (AC-3) 400 kW at 380...400 V AC 50/60 Hz (AC-3) 425 kW at 415 V AC 50/60 Hz (AC-3) 450 kW at 440 V AC 50/60 Hz (AC-3) 500 kW at 500 V AC 50/60 Hz (AC-3) 530 kW at 1000 V AC 50/60 Hz (AC-3) 560 kW at 660...690 V AC 50/60 Hz (AC-3) 160 kW at 400 V AC 50/60 Hz (AC-4)
Auxiliary Contact Composition	2 NO + 2 NC
[Uc] Control Circuit Voltage	110 V AC 50/60 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	Bar support bracket Notched mounting rails
Connections - Terminals	Power circuit: bolted connection
Tightening Torque	Power circuit: 21 N.m - on bars

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

[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
Associated Fuse Rating	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
Average Impedance	0.18 mOhm - Ith 800 A 50 Hz for power circuit
Power Dissipation Per Pole	115 W AC-1 - Ith 800 A 88 W AC-3 - Ith 800 A
Inrush Power In Va	1300 VA
Hold-In Power Consumption In Va	31 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	570 mm
Depth	475 mm
Net Weight	58 kg

Environment

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

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information