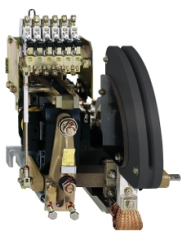


Product data sheet

Specifications



bar-mounted contactor - TeSys LC1-BL - 1 pole - AC-1 440V 800 A - coil 230V AC

LC1BL31P31

 **Discontinued on:** Sep 28, 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-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 | 230 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 |
| Net Weight | 32 kg |

Environment

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

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|