

Product data sheet

Specifications



bar-mounted contactor - TeSys LC1-BP - 4 poles - AC-1 440V 2000 A - coil 110V DC

LC1BP34FD31

 **Discontinued on:** Sep 28, 2021

 **Discontinued**

Main

Range	TeSys
Product Name	TeSys B
Product Or Component Type	Contactor
Device Short Name	LC1BP
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	2000 A (at <40 °C) AC AC-1 for power circuit
Auxiliary Contact Composition	3 NO + 1 NC
[Uc] Control Circuit Voltage	110 V DC

Complementary

Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc Drop-out: 0.35...0.5 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
Connections - Terminals	Power circuit: bars 3 x - busbar cross section: 100 x 5 mm
Tightening Torque	Power circuit: 35 N.m - on bars
[Ue] Rated Operational Voltage	Power circuit: <= 1000 V AC 50/60 Hz
[Ith] Conventional Free Air Thermal Current	2000 A (at 40 °C) for power circuit
Irms Rated Making Capacity	15000 A at 1000 V AC for power circuit conforming to IEC 60158-1 15000 A at 1000 V AC 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

Rated Breaking Capacity	12000 A at 500 V for power circuit conforming to IEC 60158-1 12000 A at 500 V for power circuit conforming to IEC 60947-4 15000 A at 440 V for power circuit conforming to IEC 60158-1 15000 A at 440 V for power circuit conforming to IEC 60947-4 5000 A at 1000 V for power circuit conforming to IEC 60158-1 5000 A at 1000 V for power circuit conforming to IEC 60947-4 9000 A at 660...690 V for power circuit conforming to IEC 60158-1 9000 A at 660...690 V for power circuit conforming to IEC 60947-4
Associated Fuse Rating	1600 A aM at <= 440 V for power circuit 2000 A gI at <= 440 V for power circuit
Average Impedance	0.13 mOhm - lth 2000 A 50 Hz for power circuit
Power Dissipation Per Pole	520 W AC-1 - lth 2000 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	490 mm
Width	1095 mm
Depth	475 mm
Net Weight	120 kg

Environment

Standards	IEC 60947-4 NF C 63-110 IEC 60158-1 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
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