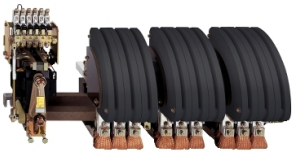
Product data sheet

Specifications



bar-mounted contactor - TeSys LC1-BR - 3 poles - AC-3 440V 1800 A - coil 110V DC

LC1BR33FD31

Discontinued on: Sep 28, 2021

Discontinued

Main

Range	TeSys
Product Name	TeSys B
Product Or Component Type	Contactor
Device Short Name	LC1BR
Contactor Application	Motor-heating-lighting
Utilisation Category	AC-1 AC-3
Control Circuit Type	DC
Coil Type	Standard
Poles Description	3P
Pole Contact Composition	3 NO
[Ie] Rated Operational Current	2750 A (at <40 °C) AC AC-1 for power circuit 1800 A (at <55 °C) AC AC-3 for power circuit
Motor Power Kw	500 kW at 220...230 V AC 50/60 Hz 750 kW at 1000 V AC 50/60 Hz 900 kW at 380...400 V AC 50/60 Hz 900 kW at 415 V AC 50/60 Hz 900 kW at 440 V AC 50/60 Hz 900 kW at 500 V AC 50/60 Hz 900 kW at 660...690 V AC 50/60 Hz
Auxiliary Contact Composition	3 NO + 1 NC
[Uc] Control Circuit Voltage	110 V DC

Complementary

Control Circuit Voltage Limits	Drop-out: 0.4...0.5 Uc Operational: 0.85...1.1 Ucw
[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: bars 4 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	2750 A (at 40 °C) for power circuit

Irms Rated Making Capacity	18000 A at 1000 V AC for power circuit conforming to IEC 60158-1 18000 A at 1000 V AC for power circuit conforming to IEC 60947-4
Rated Breaking Capacity	11000 A at 660...690 V for power circuit conforming to IEC 60158-1 11000 A at 660...690 V for power circuit conforming to IEC 60947-4 15000 A at 500 V for power circuit conforming to IEC 60158-1 15000 A at 500 V for power circuit conforming to IEC 60947-4 18000 A at 440 V for power circuit conforming to IEC 60158-1 18000 A at 440 V for power circuit conforming to IEC 60947-4 6000 A at 1000 V for power circuit conforming to IEC 60158-1 6000 A at 1000 V for power circuit conforming to IEC 60947-4
Associated Fuse Rating	2000 A aM at <= 440 V for power circuit 2400 A gI at <= 440 V for power circuit
Average Impedance	0.09 mOhm - Ith 2750 A 50 Hz for power circuit
Power Dissipation Per Pole	360 W AC-3 - Ith 2750 A 680 W AC-1 - Ith 2750 A
Inrush Power In W	1100 W
Hold-In Power Consumption In W	31 W
Operating Time	100...150 ms closing 20...40 ms opening
Mechanical Durability	1200000 cycles
Maximum Operating Rate	120 cyc/h 55 °C
Height	495 mm
Width	915 mm
Depth	475 mm
Net Weight	129 kg

Environment

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

Contractual warranty

Warranty	18 months