


Product data sheet

Specifications



bar-mounted contactor - TeSys LC1-BR - 4P - AC-1 1000 V 2750 A - coil 415 VAC

LC1BR34N31

 **Discontinued on:** May 11, 2020

 **Discontinued**

Main

Range	TeSys
Product Name	TeSys B
Product Or Component Type	Contactors
Device Short Name	LC1BR
Contactors Application	Motor-heating-lighting
Utilisation Category	AC-1
Control Circuit Type	AC
Coil Type	Standard
Poles Description	4P
Pole Contact Composition	4 NO
[Ie] Rated Operational Current	2750 A (at <40 °C) AC AC-1 for power circuit
Auxiliary Contact Composition	3 NO + 1 NC
[Uc] Control Circuit Voltage	415 V AC 50...400 Hz

Complementary

Protective Cover	With
Auxiliary Contacts Type	type instantaneous 3 NO + 1 NC
Control Circuit Voltage Limits	Operational: 0.85...1.1 Uc Drop-out: 0.4...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
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

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	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	680 W AC-1 - Ith 2750 A
Inrush Power In Va	1600 VA
Hold-In Power Consumption In Va	47 VA
Operating Time	100...150 ms closing 20...40 ms opening
Mechanical Durability	1200000 cycles
Maximum Operating Rate	120 cyc/h 55 °C
Rated Operational Power In Va	2000 VA at 110...127 V AC-1 - electrical durability: 1000000 cycles - for control circuit 3500 VA at 500 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 220 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 380 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 415...440 V AC-1 - electrical durability: 1000000 cycles - for control circuit
Rated Operational Power In W	200 W at 500 V AC - electrical durability: 1000000 cycles - for control circuit 230 W at 440 V AC - electrical durability: 1000000 cycles - for control circuit 250 W at 110 V AC - electrical durability: 1000000 cycles - for control circuit 250 W at 220 V AC - electrical durability: 1000000 cycles - for control circuit
Height	555 mm
Width	475 mm
Depth	1095 mm
Net Weight	52 kg

Environment

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

Package 1 Width	66 cm
Package 1 Length	120 cm
Package 1 Weight	170 kg

Contractual warranty

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