

Product datasheet

Specifications



bar-mounted contactor - TeSys LC1-BR - 4 poles - AC-1 440V 2750 A - coil 500V AC

LC1BR34S31

 **Discontinued on:** 18-Nov-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
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	500 V AC 50...400 Hz

Complementary

Control Circuit Voltage Limits	Drop-out: 0.4...0.5 Uc at 50...400 Hz Operational: 0.85...1.1 Ucw 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: 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 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	495 mm
Width	1095 mm
Depth	475 mm
Net Weight	160 kg

Environment

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