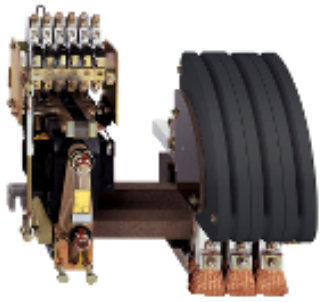
Product data sheet
Characteristics

LC1BR31R31
bar-mounted contactor - TeSys LC1-BR - 1 pole - AC-1 440V 2750 A - coil 440V AC



Commercial status
End of Commercialisation : SEP 28, 2021

⚠ End of Commercialisation

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	1P
Pole contact composition	1 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	440 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	Notched mounting rails Bar support bracket
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

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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	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	495 Mm
Width	475 Mm
Depth	475 Mm
Net weight	52 Kg

Environment

Standards	IEC 60158-1 NF C 63-110 IEC 60947-4 VDE 0660 BS 5424
Product certifications	CSA[RETURN]RINA[RETURN]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

Product Life Status : End of commerc. - Block