



### 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	DC
Coil type	Standard
Poles description	2P
Pole contact composition	2 NO
[Ie] rated operational current	2750 A (at <40 °C) AC AC-1 for power circuit
Auxiliary contact composition	2 NO + 2 NC
[Uc] control circuit voltage	220 V DC

### Complementary

Control circuit voltage limits	Drop-out: 0.4...0.5 U <sub>c</sub> Operational: 0.85...1.1 U <sub>cw</sub>
[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
[I <sub>th</sub> ] conventional free air thermal current	2750 A (at 40 °C) for power circuit
I <sub>rms</sub> 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	680 W AC-1 - Ith 2750 A
Inrush power in W	800 W
Hold-in power consumption in W	20 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	665 mm
Depth	475 mm
Net weight	85 kg

## Environment

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

## Contractual warranty

Warranty	18 months
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