

Main

Range of product	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
[In] rated current	2750 A ($\leq 40^\circ\text{C}$) AC network AC-1 for power circuit 1800 A ($\leq 55^\circ\text{C}$) AC network AC-3 for power circuit
Motor power kW	900 kW at 660...690 V AC 50/60 Hz 900 kW at 500 V AC 50/60 Hz 900 kW at 440 V AC 50/60 Hz 900 kW at 415 V AC 50/60 Hz 900 kW at 380...400 V AC 50/60 Hz 750 kW at 1000 V AC 50/60 Hz 500 kW at 220...230 V AC 50/60 Hz
Auxiliary contact composition	2 NO + 2 NC
[Uc] control circuit voltage	220 V DC

Complementary

Control circuit voltage limits	0.85...1.1 U _{cn} operational 0.4...0.5 U _c drop-out
[Ui] rated insulation voltage	1500 V - for power circuit - conforming to VDE 0110 group C 1000 V - for power circuit - conforming to IEC 60947-4 1000 V - for power circuit - conforming to IEC 60158-1
Mounting mode	Fixed
Mounting support	Bar support bracket Notched mounting rails
Connections - terminals	Power circuit: bars 4
Tightening torque	Power circuit: 35 N.m - on bars
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz for power circuit
[I _{th}] conventional free air thermal current	2750 A at $\leq 40^\circ\text{C}$ for power circuit
I _{rms} rated making capacity	18000 A at 1000 V AC for power circuit conforming to IEC 60947-4 18000 A at 1000 V AC for power circuit conforming to IEC 60158-1
Rated breaking capacity	6000 A at 1000 V for power circuit conforming to IEC 60947-4 6000 A at 1000 V for power circuit conforming to IEC 60158-1 18000 A at 440 V for power circuit conforming to IEC 60947-4 18000 A at 440 V for power circuit conforming to IEC 60158-1 15000 A at 500 V for power circuit conforming to IEC 60947-4 15000 A at 500 V for power circuit conforming to IEC 60158-1 11000 A at 660...690 V for power circuit conforming to IEC 60947-4 11000 A at 660...690 V for power circuit conforming to IEC 60158-1
Associated fuse rating	2400 A gI at ≤ 440 V for power circuit 2000 A aM at ≤ 440 V for power circuit
Average impedance	0.09 mOhm at 50 Hz - I _{th} 2750 A for power circuit
Power dissipation per pole	680 W AC-1 - I _{th} 2750 A 360 W AC-3 - I _{th} 2750 A

Inrush power in W	1100 W
Hold-in power consumption in W	31 W
Operating time	20...40 ms opening 100...150 ms closing
Mechanical durability	1200000 cycles
Operating rate	120 cyc/h at ≤ 55 °C
Height	495 mm
Width	915 mm
Depth	475 mm
Product weight	129 kg

Environment

Standards	BS 5424 IEC 60158-1 IEC 60947-4 NF C 63-110 VDE 0660
Product certifications	BV CSA RINA
Protective treatment	TH TC
Ambient air temperature for operation	-5...55 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without derating in temperature

Contractual warranty

Period	18 months
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