

Main

Range of product	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
[In] rated current	2750 A ($\leq 40^\circ\text{C}$) AC network AC-1 for power circuit
Auxiliary contact composition	1 NO + 3 NC
[Uc] control circuit voltage	500 V AC 50...400 Hz

Complementary

Control circuit voltage limits	0.85...1.1 U _{cn} operational 50...400 Hz 0.4...0.5 U _c drop-out 50...400 Hz
[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 gL 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
Inrush power in VA	1600 VA
Hold-in power consumption in VA	47 VA 50/60 Hz
Operating time	50...100 ms opening 100...150 ms closing
Mechanical durability	1200000 cycles
Operating rate	120 cyc/h at $\leq 55^\circ\text{C}$
Height	495 mm
Width	1095 mm

Depth	475 mm
Product weight	160 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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