



Main

Range of product	TeSys B
Product or component type	Contactor
Device short name	LC1BM
Contactor application	Motor-heating-lighting
Utilisation category	AC-1
Control circuit type	DC
Coil type	Standard
Poles description	2P
Pole contact composition	2 NO
[In] rated current	1250 A ($\leq 40^{\circ}\text{C}$) AC network AC-1 for power circuit
Auxiliary contact composition	4 NO
[Uc] control circuit voltage	110 V DC

Complementary

Control circuit voltage limits	0.85...1.1 Uc operational 0.3...0.5 Uc 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
Tightening torque	Power circuit: 35 N.m - on bars
[Ue] rated operational voltage	≤ 1000 V AC 50/60 Hz for power circuit
[Ith] conventional free air thermal current	1250 A at $\leq 40^{\circ}\text{C}$ for power circuit
Irms rated making capacity	10000 A at 1000 V AC for power circuit conforming to IEC 60947-4 10000 A at 1000 V AC for power circuit conforming to IEC 60158-1
Rated breaking capacity	9000 A at 500 V for power circuit conforming to IEC 60947-4 9000 A at 500 V for power circuit conforming to IEC 60158-1 8000 A at 660...690 V for power circuit conforming to IEC 60947-4 8000 A at 660...690 V for power circuit conforming to IEC 60158-1 4000 A at 1000 V for power circuit conforming to IEC 60947-4 4000 A at 1000 V for power circuit conforming to IEC 60158-1 10000 A at 440 V for power circuit conforming to IEC 60947-4 10000 A at 440 V for power circuit conforming to IEC 60158-1
Associated fuse rating	1500 A gl at ≤ 440 V for power circuit 1200 A gl at ≤ 440 V for power circuit 1200 A am at ≤ 440 V for power circuit
Average impedance	0.18 mOhm at 50 Hz - Ith 1250 A for power circuit
Power dissipation per pole	280 W AC-1 - Ith 1250 A
Inrush power in W	800 W
Hold-in power consumption in W	20 W
Operating time	20...40 ms opening 100...150 ms closing
Mechanical durability	1200000 cycles
Operating rate	120 cyc/h at $\leq 55^{\circ}\text{C}$
Height	490 mm
Width	475 mm

Depth	475 mm
Product weight	44 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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