



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	4P
Pole contact composition	4 NO
[Ie] rated operational current	2750 A (<= 40 °C) AC AC-1 for power circuit
Auxiliary contact composition	4 NO
[Uc] control circuit voltage	500 V AC 50...400 Hz

Complementary

Control circuit voltage limits	0.4...0.5 U _c drop-out 50...400 Hz 0.85...1.1 U _{cw} operational 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	Bar support bracket Notched mounting rails
Connections - terminals	Power circuit : bars 4 - busbar cross section: 100 x 5 mm
Tightening torque	Power circuit : 35 N.m - on bars
[U _e] rated operational voltage	<= 1000 V AC 50/60 Hz for power circuit
[I _{th}] conventional free air thermal current	2750 A at <= 40 °C for power circuit
Rms 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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 at 50 Hz - Ith 2750 A for power circuit
Power dissipation per pole	680 W AC-1 - Ith 2750 A
Inrush power in VA	1600 VA
Hold-in power consumption in VA	47 VA 50/60 Hz
Operating time	100...150 ms closing 50...100 ms opening
Mechanical durability	1200000 cycles
Operating rate	120 cyc/h at ≤ 55 °C
Height	495 mm
Width	1095 mm
Depth	475 mm
Product weight	160 kg

Environment

Standards	IEC 60947-4 VDE 0660 NF C 63-110 IEC 60158-1 BS 5424
Product certifications	CSA RINA 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 period	18 months
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