



Main

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| Range | TeSys |
| Product name | TeSys B |
| Product or component type | Contactor |
| Device short name | LC1BR |
| Contactor application | Motor-heating-lighting |
| Utilisation category | AC-3 AC-1 |
| Control circuit type | AC |
| Coil type | Standard |
| Poles description | 3P |
| Pole contact composition | 3 NO |
| [Ie] rated operational current | 2750 A (<= 40 °C) AC AC-1 for power circuit 1800 A (<= 40 °C) AC AC-3 for power circuit |
| Motor power kW | 500 kW at 220...230 V AC 50/60 Hz 750 kW at 1000 V AC 50/60 Hz 900 kW at 380...400 V AC 50/60 Hz 900 kW at 415 V AC 50/60 Hz 900 kW at 440 V AC 50/60 Hz 900 kW at 500 V AC 50/60 Hz 900 kW at 660...690 V AC 50/60 Hz |
| Auxiliary contact composition | 2 NO + 2 NC |
| [Uc] control circuit voltage | 127 V AC 50...400 Hz |

Complementary

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| Protective cover | With |
| Auxiliary contacts type | Type instantaneous (2 NO + 2 NC) |
| Control circuit voltage limits | 0.4...0.5 Uc drop-out 0.85...1.1 Uc operational |
| [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 |
| Connections - terminals | Power circuit : bars 4 - busbar cross section: 100 x 5 mm |
| Tightening torque | Power circuit : 35 N.m - on bars |
| [Ue] rated operational voltage | <= 1000 V AC 50/60 Hz for power circuit |

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| [I _{th}] conventional free air thermal current | 2750 A at ≤ 40 °C for power circuit |
| I _{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 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 mΩ 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 | 1300 VA |
| Hold-in power consumption in VA | 31 VA |
| Operating time | 100...150 ms closing 20...40 ms opening |
| Mechanical durability | 1200000 cycles |
| Operating rate | 120 cyc/h at ≤ 55 °C |
| Rated operational power in VA | 3500 VA at 500 V AC-1 - electrical durability: 1000000 cycles - for control circuit 3500 VA at 500 V AC-3 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 220 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 220 V AC-3 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 380 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 380 V AC-3 - electrical durability: 1000000 cycles - for control circuit 2000 VA at 110...127 V AC-1 - electrical durability: 1000000 cycles - for control circuit 2000 VA at 110...127 V AC-3 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 415...440 V AC-1 - electrical durability: 1000000 cycles - for control circuit 4000 VA at 415...440 V AC-3 - electrical durability: 1000000 cycles - for control circuit |
| Rated operational power in W | 200 W at 500 V AC - electrical durability: 1000000 cycles - for control circuit 230 W at 440 V AC - electrical durability: 1000000 cycles - for control circuit 250 W at 110 V AC - electrical durability: 1000000 cycles - for control circuit 250 W at 220 V AC - electrical durability: 1000000 cycles - for control circuit |
| Height | 555 mm |
| Width | 475 mm |
| Depth | 915 mm |
| Product weight | 129 kg |

Environment

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

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| Warranty period | 18 months |
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