



### Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Product name                   | TeSys B  |
| Product or component type      | Contactor  |
| Device short name              | LC1BL  |
| Contactor application          | Motor-heating-lighting   |
| Utilisation category           | AC-1<br>AC-3   |
| Control circuit type           | AC   |
| Coil type                      | Standard   |
| Poles description              | 3P   |
| Pole contact composition       | 3 NO   |
| [Ie] rated operational current | 800 A (at <40 °C) AC AC-1 for power circuit<br>750 A (at <55 °C) AC AC-3 for power circuit   |
| Motor power kW                 | 220 kW at 220...230 V AC 50/60 Hz<br>400 kW at 380...400 V AC 50/60 Hz<br>425 kW at 415 V AC 50/60 Hz<br>450 kW at 440 V AC 50/60 Hz<br>500 kW at 500 V AC 50/60 Hz<br>530 kW at 1000 V AC 50/60 Hz<br>560 kW at 660...690 V AC 50/60 Hz |
| Auxiliary contact composition  | 3 NO + 1 NC  |
| [Uc] control circuit voltage   | 400 V AC 50...400 Hz   |

### Complementary

|   |   |
|---|---|
| Control circuit voltage limits              | Drop-out: 0.3...0.5 Uc at 50...400 Hz<br>Operational: 0.85...1.1 Uc at 50...400 Hz  |
| [Ui] rated insulation voltage               | 1000 V - for power circuit conforming to IEC 60158-1<br>1000 V - for power circuit conforming to IEC 60947-4<br>1500 V - for power circuit conforming to VDE 0110 group C |
| Mounting mode                               | Fixed   |
| Mounting support                            | Bar support bracket<br>Notched mounting rails   |
| Tightening torque                           | Power circuit: 21 N.m - on bars   |
| [Ue] rated operational voltage              | Power circuit: ≤ 1000 V AC 50/60 Hz   |
| [Ith] conventional free air thermal current | 800 A (at 40 °C) for power circuit  |
| Rms rated making capacity                   | 10000 A at 1000 V AC for power circuit conforming to IEC 60158-1<br>10000 A at 1000 V AC for power circuit conforming to IEC 60947-4                                      |

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|                                 |  |
|---------------------------------|--|
| Rated breaking capacity         | 10000 A at 440 V for power circuit conforming to IEC 60158-1<br>10000 A at 440 V for power circuit conforming to IEC 60947-4<br>4000 A at 1000 V for power circuit conforming to IEC 60158-1<br>4000 A at 1000 V for power circuit conforming to IEC 60947-4<br>8000 A at 660...690 V for power circuit conforming to IEC 60158-1<br>8000 A at 660...690 V for power circuit conforming to IEC 60947-4<br>9000 A at 500 V for power circuit conforming to IEC 60158-1<br>9000 A at 500 V for power circuit conforming to IEC 60947-4 |
| Associated fuse rating          | 1000 A gI at <= 440 V for power circuit<br>800 A aM at <= 440 V for power circuit<br>800 A gI at <= 440 V for power circuit  |
| Average impedance               | 0.18 MOhm - Ith 800 A 50 Hz for power circuit  |
| Power dissipation per pole      | 115 W AC-1 - Ith 800 A<br>88 W AC-3 - Ith 800 A  |
| Inrush power in VA              | 1300 VA  |
| Hold-in power consumption in VA | 31 VA 50/60 Hz   |
| Operating time                  | 100...150 ms closing<br>50...100 ms opening  |
| Mechanical durability           | 1200000 Cycles   |
| Maximum operating rate          | 120 Cyc/H 55 °C  |
| Height                          | 486 Mm   |
| Width                           | 570 Mm   |
| Depth                           | 475 Mm   |
| Net weight                      | 58 Kg  |

## Environment

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

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Product Life Status : **Commercialised**