

# LC1BR33MD40

bar-mounted contactor - TeSys LC1-BR - 3  
poles - AC-3 440V 1800 A - coil 220V DC

## Main

|                               |                                                                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | TeSys B                                                                                                                                                                                                                                  |
| Product or component type     | Contactor                                                                                                                                                                                                                                |
| Device short name             | LC1BR                                                                                                                                                                                                                                    |
| Contactor application         | Motor-heating-lighting                                                                                                                                                                                                                   |
| Utilisation category          | AC-1<br>AC-3                                                                                                                                                                                                                             |
| Control circuit type          | DC                                                                                                                                                                                                                                       |
| Coil type                     | Standard                                                                                                                                                                                                                                 |
| Poles description             | 3P                                                                                                                                                                                                                                       |
| Pole contact composition      | 3 NO                                                                                                                                                                                                                                     |
| [In] rated current            | 2750 A ( $\leq 40\text{ }^{\circ}\text{C}$ ) AC network AC-1 for power circuit<br>1800 A ( $\leq 55\text{ }^{\circ}\text{C}$ ) AC network AC-3 for power circuit                                                                         |
| Motor power kW                | 900 kW at 660...690 V AC 50/60 Hz<br>900 kW at 500 V AC 50/60 Hz<br>900 kW at 440 V AC 50/60 Hz<br>900 kW at 415 V AC 50/60 Hz<br>900 kW at 380...400 V AC 50/60 Hz<br>750 kW at 1000 V AC 50/60 Hz<br>500 kW at 220...230 V AC 50/60 Hz |
| Auxiliary contact composition | 4 NO                                                                                                                                                                                                                                     |
| [Uc] control circuit voltage  | 220 V DC                                                                                                                                                                                                                                 |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Control circuit voltage limits              | 0.85...1.1 Ucw operational<br>0.4...0.5 Uc drop-out                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| [Ui] rated insulation voltage               | 1500 V - for power circuit - conforming to VDE 0110 group C<br>1000 V - for power circuit - conforming to IEC 60947-4<br>1000 V - for power circuit - conforming to IEC 60158-1                                                                                                                                                                                                                                                                                                                                                          |
| Mounting mode                               | Fixed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mounting support                            | Bar support bracket<br>Notched mounting rails                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Connections - terminals                     | Power circuit: bars 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tightening torque                           | Power circuit: 35 N.m - on bars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| [Ue] rated operational voltage              | $\leq 1000\text{ V AC } 50/60\text{ Hz}$ for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| [Ith] conventional free air thermal current | 2750 A at $\leq 40\text{ }^{\circ}\text{C}$ for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Irms rated making capacity                  | 18000 A at 1000 V AC for power circuit conforming to IEC 60947-4<br>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<br>6000 A at 1000 V for power circuit conforming to IEC 60158-1<br>18000 A at 440 V for power circuit conforming to IEC 60947-4<br>18000 A at 440 V for power circuit conforming to IEC 60158-1<br>15000 A at 500 V for power circuit conforming to IEC 60947-4<br>15000 A at 500 V for power circuit conforming to IEC 60158-1<br>11000 A at 660...690 V for power circuit conforming to IEC 60947-4<br>11000 A at 660...690 V for power circuit conforming to IEC 60158-1 |
| Associated fuse rating                      | 2400 A gI at $\leq 440\text{ V}$ for power circuit<br>2000 A aM at $\leq 440\text{ V}$ 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<br>360 W AC-3 - Ith 2750 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Inrush power in W              | 1100 W                                     |
| Hold-in power consumption in W | 31 W                                       |
| Operating time                 | 20...40 ms opening<br>100...150 ms closing |
| Mechanical durability          | 1200000 cycles                             |
| Operating rate                 | 120 cyc/h at ≤ 55 °C                       |
| Height                         | 495 mm                                     |
| Width                          | 915 mm                                     |
| Depth                          | 475 mm                                     |
| Product weight                 | 129 kg                                     |

## Environment

|                                       |                                                                  |
|---------------------------------------|------------------------------------------------------------------|
| Standards                             | BS 5424<br>IEC 60158-1<br>IEC 60947-4<br>NF C 63-110<br>VDE 0660 |
| Product certifications                | BV<br>CSA<br>RINA                                                |
| Protective treatment                  | TH<br>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

|        |           |
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| Period | 18 months |
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