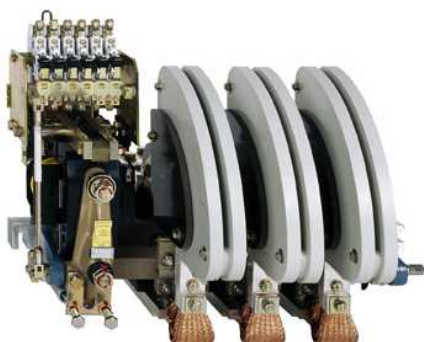


# LC1BM33M31

bar-mounted contactor - TeSys LC1-BM - 3  
poles - AC-3 440V 1000 A - coil 220V AC



## Main

|                               |                                                                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product              | TeSys B                                                                                                                                                                                                                                  |
| Product or component type     | Contactor                                                                                                                                                                                                                                |
| Device short name             | LC1BM                                                                                                                                                                                                                                    |
| 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                                                                                                                                                                                                                                     |
| [In] rated current            | 1250 A ( $\leq 40\text{ }^{\circ}\text{C}$ ) AC network AC-1 for power circuit<br>1000 A ( $\leq 55\text{ }^{\circ}\text{C}$ ) AC network AC-3 for power circuit                                                                         |
| Motor power kW                | 670 kW at 660...690 V AC 50/60 Hz<br>600 kW at 500 V AC 50/60 Hz<br>560 kW at 440 V AC 50/60 Hz<br>530 kW at 415 V AC 50/60 Hz<br>530 kW at 1000 V AC 50/60 Hz<br>500 kW at 380...400 V AC 50/60 Hz<br>280 kW at 220...230 V AC 50/60 Hz |
| Auxiliary contact composition | 3 NO + 1 NC                                                                                                                                                                                                                              |
| [Uc] control circuit voltage  | 220 V AC 50...400 Hz                                                                                                                                                                                                                     |

## Complementary

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control circuit voltage limits              | 0.85...1.1 Uc operational 50...400 Hz<br>0.3...0.5 Uc drop-out 50...400 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| [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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 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 | 1250 A at $\leq 40\text{ }^{\circ}\text{C}$ for power circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Irms rated making capacity                  | 10000 A at 1000 V AC for power circuit conforming to IEC 60947-4<br>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<br>9000 A at 500 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>8000 A at 660...690 V for power circuit conforming to IEC 60158-1<br>4000 A at 1000 V for power circuit conforming to IEC 60947-4<br>4000 A at 1000 V for power circuit conforming to IEC 60158-1<br>10000 A at 440 V for power circuit conforming to IEC 60947-4<br>10000 A at 440 V for power circuit conforming to IEC 60158-1 |
| Associated fuse rating                      | 1500 A gI at $\leq 440\text{ V}$ for power circuit<br>1200 A gI at $\leq 440\text{ V}$ for power circuit<br>1200 A aM at $\leq 440\text{ V}$ 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<br>180 W AC-3 - Ith 1250 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Inrush power in VA              | 1300 VA                                     |
| Hold-in power consumption in VA | 31 VA 50/60 Hz                              |
| Operating time                  | 50...100 ms opening<br>100...150 ms closing |
| Mechanical durability           | 1200000 cycles                              |
| Operating rate                  | 120 cyc/h at ≤ 55 °C                        |
| Height                          | 490 mm                                      |
| Width                           | 570 mm                                      |
| Depth                           | 475 mm                                      |
| Product weight                  | 57 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                           |

## Offer Sustainability

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| Sustainable offer status | Not Green Premium product                         |
| RoHS                     | Will not be Compliant                             |
| REACH                    | Reference not containing SVHC above the threshold |

## Contractual warranty

|        |           |
|--------|-----------|
| Period | 18 months |
|--------|-----------|