

Product data sheet

Characteristics

LC1BL33MD40

bar-mounted contactor - TeSys LC1-BL - 3 poles - AC-3 440V 750 A - coil 220V DC



Main

Range of product	TeSys B
Product or component type	Contactor
Device short name	LC1BL
Contactor application	Motor-heating-lighting
Utilisation category	AC-1 AC-3
Control circuit type	DC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[In] rated current	800 A (<= 40 °C) AC network AC-1 for power circuit 750 A (<= 55 °C) AC network AC-3 for power circuit
Motor power kW	560 kW at 660...690 V AC 50/60 Hz 530 kW at 1000 V AC 50/60 Hz 500 kW at 500 V AC 50/60 Hz 450 kW at 440 V AC 50/60 Hz 425 kW at 415 V AC 50/60 Hz 400 kW at 380...400 V AC 50/60 Hz 220 kW at 220...230 V AC 50/60 Hz
Auxiliary contact composition	4 NO
[Uc] control circuit voltage	220 V DC

Complementary

Control circuit voltage limits	0.85...1.1 Uc operational 0.3...0.5 Uc drop-out
[Ui] rated insulation voltage	1500 V - for power circuit - conforming to VDE 0110 group C 1000 V - for power circuit - conforming to IEC 60947-4 1000 V - for power circuit - conforming to IEC 60158-1
Mounting mode	Fixed
Mounting support	Bar support bracket Notched mounting rails
Tightening torque	Power circuit: 21 N.m - on bars
[Ue] rated operational voltage	<= 1000 V AC 50/60 Hz for power circuit
[Ith] conventional free air thermal current	800 A at <= 40 °C for power circuit
Irms rated making capacity	10000 A at 1000 V AC for power circuit conforming to IEC 60947-4 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 9000 A at 500 V for power circuit conforming to IEC 60158-1 8000 A at 660...690 V for power circuit conforming to IEC 60947-4 8000 A at 660...690 V for power circuit conforming to IEC 60158-1 4000 A at 1000 V for power circuit conforming to IEC 60947-4 4000 A at 1000 V for power circuit conforming to IEC 60158-1 10000 A at 440 V for power circuit conforming to IEC 60947-4 10000 A at 440 V for power circuit conforming to IEC 60158-1
Associated fuse rating	800 A gl at <= 440 V for power circuit 800 A aM at <= 440 V for power circuit 1000 A gl at <= 440 V for power circuit
Average impedance	0.18 mOhm at 50 Hz - Ith 800 A for power circuit
Power dissipation per pole	88 W AC-3 - Ith 800 A 115 W AC-1 - Ith 800 A
Inrush power in W	1100 W

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Hold-in power consumption in W	31 W
Operating time	20...40 ms opening 100...150 ms closing
Mechanical durability	1200000 cycles
Operating rate	120 cyc/h at <= 55 °C
Height	486 mm
Width	570 mm
Depth	475 mm
Product weight	58 kg

Environment

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

Period	18 months
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