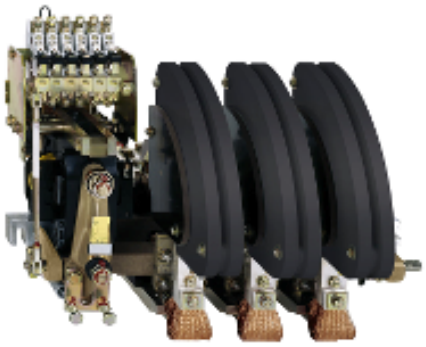
Product data sheet
Characteristics

LC1BM33GD40
bar-mounted contactor - TeSys LC1-BM - 3 poles - AC-3 440V 1000 A - coil 125V DC



Commercial status
End of Commercialisation : SEP 28, 2021

⚠ End of Commercialisation

Main

Range	TeSys
Product name	TeSys B
Product or component type	Contactor
Device short name	LC1BM
Contactor application	Motor-heating-lighting
Utilisation category	AC-3 AC-1
Control circuit type	DC
Coil type	Standard
Poles description	3P
Pole contact composition	3 NO
[Ie] rated operational current	1250 A (at <40 °C) AC AC-1 for power circuit 1000 A (at <55 °C) AC AC-3 for power circuit
Motor power kW	530 KW at 1000 V AC 50/60 Hz 280 KW at 220...230 V AC 50/60 Hz 500 KW at 380...400 V AC 50/60 Hz 530 KW at 415 V AC 50/60 Hz 560 KW at 440 V AC 50/60 Hz 600 KW at 500 V AC 50/60 Hz 670 KW at 660...690 V AC 50/60 Hz
Auxiliary contact composition	4 NO
[Uc] control circuit voltage	125 V DC

Complementary

Control circuit voltage limits	Drop-out: 0.3...0.5 Uc Operational: 0.85...1.1 Uc
[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
Mounting mode	Fixed
Mounting support	Bar support bracket Notched mounting rails
Tightening torque	Power circuit: 35 N.m - on bars
[Ue] rated operational voltage	Power circuit: <= 1000 V AC 50/60 Hz
[Ith] conventional free air thermal current	1250 A (at 40 °C) for power circuit
Irms rated making capacity	10000 A at 1000 V AC for power circuit conforming to IEC 60158-1 10000 A at 1000 V AC for power circuit conforming to IEC 60947-4

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein.
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Rated breaking capacity	10000 A at 440 V for power circuit conforming to IEC 60158-1 10000 A at 440 V for power circuit conforming to IEC 60947-4 4000 A at 1000 V for power circuit conforming to IEC 60158-1 4000 A at 1000 V for power circuit conforming to IEC 60947-4 8000 A at 660...690 V for power circuit conforming to IEC 60158-1 8000 A at 660...690 V for power circuit conforming to IEC 60947-4 9000 A at 500 V for power circuit conforming to IEC 60158-1 9000 A at 500 V for power circuit conforming to IEC 60947-4
Associated fuse rating	1200 A aM at <= 440 V for power circuit 1200 A gI at <= 440 V for power circuit 1500 A gI at <= 440 V for power circuit
Average impedance	0.18 MOhm - Ith 1250 A 50 Hz for power circuit
Power dissipation per pole	180 W AC-3 - Ith 1250 A 280 W AC-1 - Ith 1250 A
Inrush power in W	1100 W
Hold-in power consumption in W	31 W
Operating time	100...150 ms closing 20...40 ms opening
Mechanical durability	1200000 Cycles
Maximum operating rate	120 Cyc/H 55 °C
Height	490 Mm
Width	570 Mm
Depth	475 Mm
Net weight	57 Kg

Environment

Standards	VDE 0660 IEC 60158-1 IEC 60947-4 BS 5424 NF C 63-110
Product certifications	BV[RETURN]CSA[RETURN]RINA
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

Warranty	18 months

Product Life Status : End of commerc. - Block