



## Contactor, LC1D32M7C

URL: <https://www.sxplc.com/contactor-lc1d32m7c>

### Product data sheet

Device short name	LC1D
contactor application	Resistive load Motor control
Utilisation category	AC-4 AC-1 AC-3 AC-3e
poles description	3P
[Ue] rated operational voltage	Power circuit $\leq 690$ V AC 25...400 Hz Power circuit $\leq 300$ V DC
[Ie] rated operational current	32 A (at $<140$ °F (60 °C)) at $\leq 440$ V AC AC-3 for power circuit 50 A (at $<140$ °F (60 °C)) at $\leq 440$ V AC AC-1 for power circuit 32 A (at $<140$ °F (60 °C)) at $\leq 440$ V AC AC-3e for power circuit
[Uc] control circuit voltage	220 V AC 50/60 Hz

Complementary	Motor power kW	7.5 kW at 220...230 V AC 50/60 Hz (AC-3) 15 kW at 380...400 V AC 50/60 Hz (AC-3) 15 kW at 415...440 V AC 50/60 Hz (AC-3)
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	<p>18.5 kW at 500 V AC 50/60 Hz (AC-3)</p> <p>18.5 kW at 660...690 V AC 50/60 Hz (AC-3)</p> <p>7.5 kW at 400 V AC 50/60 Hz (AC-4)</p> <p>7.5 kW at 220...230 V AC 50/60 Hz (AC-3e)</p> <p>15 kW at 380...400 V AC 50/60 Hz (AC-3e)</p> <p>15 kW at 415...440 V AC 50/60 Hz (AC-3e)</p> <p>18.5 kW at 500 V AC 50/60 Hz (AC-3e)</p> <p>18.5 kW at 660...690 V AC 50/60 Hz (AC-3e)</p>
Maximum Horse Power Rating	<p>2 hp at 115 V AC 50/60 Hz for 1 phase motors</p> <p>5 hp at 230/240 V AC 50/60 Hz for 1 phase motors</p> <p>10 hp at 200/208 V AC 50/60 Hz for 3 phase motors</p> <p>10 hp at 230/240 V AC 50/60 Hz for 3 phase motors</p> <p>20 hp at 460/480 V AC 50/60 Hz for 3 phase motors</p> <p>25 hp at 575/600 V AC 50/60 Hz for 3 phase motors</p>
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	<p>10 A (at 140 °F (60 °C)) for signalling circuit</p> <p>50 A (at 140 °F (60 °C)) for power circuit</p>
Irms rated making capacity	<p>140 A AC for signalling circuit conforming to IEC 60947-4-1</p> <p>250 A DC for signalling circuit conforming to IEC 60947-4-1</p> <p>550 A at 440 V for power circuit conforming to IEC 60947-4-1</p>
Rated breaking capacity	550 A at 440 V for power circuit conforming to IEC 60947-4-1
[Icw] rated short-time withstand current	<p>260 A 104 °F (40 °C) - 10 s for power circuit</p> <p>430 A 104 °F (40 °C) - 1 s for power circuit</p> <p>60 A 104 °F (40 °C) - 10 min for power circuit</p> <p>138 A 104 °F (40 °C) - 1 min for power circuit</p> <p>100 A - 1 s for signalling circuit</p> <p>120 A - 500 ms for signalling circuit</p> <p>140 A - 100 ms for signalling circuit</p>

Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5 63 A gG at $\leq 690$ V coordination type 1 for power circuit 63 A gG at $\leq 690$ V coordination type 2 for power circuit
Average impedance	2 mOhm - lth 50 A 50 Hz for power circuit
Power dissipation per pole	2 W AC-3 5 W AC-1 2 W AC-3e
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Power circuit 600 V CSA Power circuit 600 V UL Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN 13849-1 B10d = 20000000 cycles contactor with mechanical load 13849-1
Mechanical durability	15 Mcycles
Electrical durability	1.65 Mcycles 32 A AC-3 $\leq 440$ V 1.4 Mcycles 50 A AC-1 $\leq 440$ V 1.65 Mcycles 32 A AC-3e $\leq 440$ V
Control circuit type	AC 50/60 Hz standard
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.3...0.6 Uc -40...158 °F (-40...70 °C) drop-out AC 50/60 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational AC 50/60 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 60/60 1...1.1 Uc 140...158 °F (60...70 °C) operational AC 50/60

Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	2...3 W at 50/60 Hz
Operating time	12...22 ms closing 4...19 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

