contactor LC1-D65AM7

URL:https://www.sxplc.com/contactor-lc1-d65am7

Product data sheet

Areas of application for contactors for AC loads with a power factor greater than or equal to 0.95.

For non-inductive or slightly inductive loads, resistance furnaces.

Category of use AC-4

AC-1

AC-3

AC-3e

Number of poles 3P

Rated operating voltage [Ue] Power circuit: <= 690 V AC 25...400 Hz. .400 Hz

Power circuit: <= 300 V DC

Rated operating current [Ie] 80 A (at operating temperature <= 60 °C) at operating voltage <= <= 440 V AC AC-1 for power circuits

65 A (at operating temperatures <= 60 °C) at operating voltages <= <= 440 V AC AC-3 for power circuits

65 A (at operating temperature <= 60 °C) when operating voltage <= <= 440 V AC AC-3e for power supply circuits

[Uc] control circuit voltage 220 V AC 50/60 Hz

Motor power (kW) 11 kW when operating voltage <= 400 V AC 50/60 Hz (AC-4)

18.5 kW when operating voltage <= 220.... . 230 V AC 50/60 Hz (AC-3)

30 kW at operating voltages <= 380... .400 V AC 50/60 Hz (AC-3) .400 V AC 50/60 Hz (AC-3)

37 kW at operating voltages <= 500 V AC 50/60 Hz (AC-3)

37 kW at operating voltages <= 660... .690 V AC 50/60 Hz (AC-3) .690 V AC 50/60 Hz (AC-3)

18.5 kW when operating voltage <= 220... .230 V AC 50/60 Hz (AC-3) .230 V AC 50/60 Hz (AC-3e)

30 kW when operating voltage <= 380... .400 V AC 50/60 Hz (AC-3e) .400 V AC 50/60 Hz (AC-3e)

37 kW at operating voltages <= 500 V AC 50/60 Hz (AC-3e)

37 kW at operating voltages <= 660... .690 V AC 50/60 Hz (AC-3e) .690 V AC 50/60 Hz (AC-3e)

Motor power 40 hp at operating voltage <= 460/480 V AC 50/60 Hz for 3-phase motors

5 hp at operating voltages <= 115 V AC 50/60 Hz for 1-phase motors

10 hp when operating voltage <= 230/240 V AC 50/60 Hz for 1-phase motors

20 hp when operating voltage <= 200/208 V AC 50/60 Hz for 3-phase motors

20 hp when operating voltage <= 230/240 V AC 50/60 Hz for 3-phase motors

50 hp at operating voltages <= 575/600 V AC 50/60 Hz for 3-phase motors

Model LC1D

Circuit contact type 3 NO

Protective cover with

Conventional heating current [Ith] 10 A (at operating temperature <= 60 °C) for signaling circuits

80 A (at operating temperature <=60 °C) for power supply circuits

Rated turn-on capacity [Irms] 140 A AC for signal circuits according to IEC 60947-5-1

250 A DC for signaling circuits according to IEC 60947-5-1

1000 A at operating voltage <= 440 V for power circuits in accordance with IEC 60947

Rated breaking capacity 1000 A at operating voltage <= 440 V for mains circuits according to IEC 60947

Rated short-time withstand current [Icw] 640 A at operating temperature <= 40 °C for 10 s for mains

circuits

900 A at operating temperatures <= 40 °C for 1 s for power circuits

110 A at operating temperatures <= 40 °C for 10 minutes for power circuits

260 A at operating temperatures <= 40 °C for 1 min. for power circuits

100 A for 1 s for signal circuits

120 A for 500 ms for signaling circuits

140 A for 100 ms for signal circuits

Fuses for use with relays 10 A gG for signal circuits in accordance with IEC 60947-5-1

125 A gG at operating voltages <=<= 690 V with type 1, for power circuits

125 A gG at operating voltages <=<= 690 V with type 2, for power circuits

Average impedance 1.5 mΩ - Ith 80 A 50 Hz for power circuits

Power consumption per pole 9.6 W AC-1

6.3 W AC-3

6.3 W AC-3e

Rated insulation voltage [Ui] Power supply circuit: 600 V CSA approved

Power supply circuit: 600 V UL recognized

Signal circuit: 690 V in accordance with IEC 60947-1

Signal circuit: 600 V CSA approved

Signal circuits: 600 V UL recognized

Power circuits: 690 V according to IEC 60947-4-1

Overvoltage category III

Pollution class 3

Rated impulse withstand voltage [Uimp] 6 kV according to IEC 60947

Safety and reliability class B10d = 1369863 cycles Contactor with nominal load in accordance with EN/ISO 13849-1

B10d = 20000000 cycles Contactors for mechanical loads in accordance with EN/ISO 13849-1

Mechanical life 6 Mcycles

Electrical life 1.4 Mcycles 80 A AC-1 Ue condition <= 440 V

1.45 Mcycles 65 A AC-3 Ue <= 440 V

1.45 Mcycles 65 A AC-3e Ue <= 440 V

Control loop characteristics AC at 50/60 Hz Standard

Surge suppression module No built-in surge suppression module

Control voltage limits 0.3.... .0.6 Uc (-40...70 °C) Coil release AC 50/60 Hz

0.8... .1.1 Uc (-40...70 °C) .1.1 Uc (-40...60 °C) Coil release AC 50 Hz

0.85... .1.1 Uc (-40...60 °C) .1.1 Uc (-40...60 °C Coil suction AC 60 Hz)

1... .1.1 Uc (-40...60 °C) .1.1 Uc (60...70 °C Coil suction AC 50/60 Hz)

(Power consumption (VA) 140 VA 60 Hz cos phi 0.75 (at 20°C)

160 VA 50 Hz cos phi 0.75 (at 20 °C)

(~50 Hz Hold) Power Consumption (VA) 13 VA 60 Hz cos phi 0.3 (at 20 °C)

15 VA 50 Hz cos phi 0.3 (at 20 °C)

Thermal dissipation 4...5 W at 50/60 Hz

Operating time 4... .19 ms .19 ms breaking

12... .26 ms Closing 12...26 ms closing

Max. operating frequency 3600 operations/h at 60 °C