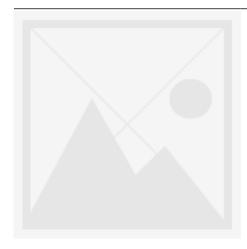
Product data sheet Characteristics

LC1D40F7 CONTACTOR 600VAC 40AMP IEC +OPTIONS



Main

IVIAIII		
Range of product	TeSys D	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Motor control Resistive load	
Utilisation category	AC-1 AC-4 AC-2 AC-3	
Control circuit type	AC 50/60 Hz	
Poles description	3P	
Pole contact composition	3 NO	
[le] rated operational current	40 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit 60 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit	
Motor power kW	11 kW at 220230 V AC 50/60 Hz 22 kW at 1000 V AC 50/60 Hz 22 kW at 415 V AC 50/60 Hz 22 kW at 440 V AC 50/60 Hz 22 kW at 500 V AC 50/60 Hz 30 kW at 660690 V AC 50/60 Hz 18.5 kW at 380400 V AC 50/60 Hz	
Motor power hp	10 hp at 200/208 V AC 60 Hz 3P motors conforming to CSA 10 hp at 200/208 V AC 60 Hz 3P motors conforming to UL 10 hp at 230/240 V AC 60 Hz 3P motors conforming to CSA 10 hp at 230/240 V AC 60 Hz 3P motors conforming to UL 3 hp at 115 V AC 60 Hz 1P motors conforming to CSA 3 hp at 115 V AC 60 Hz 1P motors conforming to UL 30 hp at 460/480 V AC 60 Hz 3P motors conforming to CSA 30 hp at 460/480 V AC 60 Hz 3P motors conforming to UL 30 hp at 575/600 V AC 60 Hz 3P motors conforming to CSA 30 hp at 575/600 V AC 60 Hz 3P motors conforming to UL 5 hp at 230/240 V AC 60 Hz 1P motors conforming to CSA 5 hp at 230/240 V AC 60 Hz 1P motors conforming to UL	
Control circuit voltage	110 V AC 50/60 Hz	
Connections - terminals	Control circuit: screw clamp terminal 1 cable 00.01 in² (14 mm²) - cable stiffness: solid - without cable end	

Control circuit: screw clamp terminal 2 cable 0...0.01 in² (1...4 mm²) - cable stiffness: solid - without Power circuit: screw clamp terminal 1 cable 0...0.05 in² (1...35 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 2 cable 0...0.04 in² (1...25 mm²) - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 1 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 1 cable 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminal 2 cable 0...0 in² (1...2.5 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 2 cable 0...0.01 in² (1...4 mm²) - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 0...0.04 in² (1...25 mm²) - cable stiffness: flexible - with Power circuit: screw clamp terminal 2 cable 0...0.05 in² (1...35 mm²) - cable stiffness: flexible - without cable end

Complementary

I J		
Coil technology	Without built-in bidirectional peak limiting diode suppressor	
Protective cover	With	
Auxiliary contacts type	Type mechanically linked (1 NO + 1 NC) conforming to IEC 60947-5-1 Type mirror contact (1 NC) conforming to IEC 60947-4-1	
Auxiliary contact composition	1 NO + 1 NC	
Control circuit voltage limits	0.30.6 Uc at 140 °F (60 °C) drop-out 50/60 Hz 0.81.1 Uc at 140 °F (60 °C) operational 50 Hz 0.851.1 Uc at 140 °F (60 °C) operational 60 Hz	
[Ui] rated insulation voltage	600 V control circuit certifications CSA 600 V control circuit certifications UL 600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V control circuit conforming to IEC 60947-1 690 V power circuit conforming to IEC 60947-1	
[Uimp] rated impulse withstand voltage	8 kV	
Overvoltage category	III	
Mounting support	Plate Rail	
Flame retardance	V1 conforming to UL 94	
Tightening torque	Power circuit : - on screw clamp terminal - with screwdriver flat \emptyset 6 mm Control circuit : - on screw clamp terminal - with screwdriver flat \emptyset 6 mm Control circuit : - on screw clamp terminal - with screwdriver Philips No 2 Power circuit : - on screw clamp terminal - with screwdriver flat \emptyset 8 mm	
System Voltage	<= 690 V AC 25400 Hz power circuit	
[lth] conventional free air thermal current	10 A at <= 140 °F (60 °C) control circuit 60 A at <= 140 °F (60 °C) power circuit	
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 800 A at 440 V power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 power circuit 80 A gG at <= 690 V coordination type 2 power circuit	
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3	
Inrush power in VA	140 VA at 68 °F (20 °C) (cos φ 0.75) 160 VA at 68 °F (20 °C) (cos φ 0.75)	
Hold-in power consumption in VA	13 VA at 68 °F (20 °C) (cos φ 0.3) 60 Hz 15 VA at 68 °F (20 °C) (cos φ 0.3) 50 Hz	
Operating time	1226 ms closing 419 ms opening	
Safety reliability level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1	
Mechanical durability	6000000 cycles	
Operating rate	3600 cyc/h at <= 140 °F (60 °C)	

Minimum switching current	5 mA control circuit	
Minimum switching voltage	17 V control circuit	
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts	
Insulation resistance	> 10 MOhm control circuit	
Height	5 in (127 mm)	
Width	2.95 in (75 mm)	
Depth	4.69 in (119 mm)	
Product weight	3.09 lb(US) (1.4 kg)	

Environment

UL CSA DNV RINA GOST BV LROS (Lloyds register of shipping) CCC IP degree of protection IP2x conforming to IEC 60529 IP2x conforming to VDE 0106 Ambient air temperature for operation 23140 °F (-560 °C) Ambient air temperature for storage -76176 °F (-6080 °C) Permissible ambient air temperature around the device Operating altitude 9842.52 ft (3000 m) without derating in temperature Fire resistance 1562 °F (850 °C) conforming to IEC 60695-2-1 Shock resistance 10 gn contactor opened 15 gn contactor closed Vibration resistance 2 gn 5300 Hz contactor opened 4 gn 5300 Hz contactor closed			
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IP2x conforming to VDE 0106 Ambient air temperature for operation 23140 °F (-560 °C) Ambient air temperature for storage -76176 °F (-6080 °C) Permissible ambient air temperature around the device -40158 °F (-4070 °C) at Uc Operating altitude 9842.52 ft (3000 m) without derating in temperature Fire resistance 1562 °F (850 °C) conforming to IEC 60695-2-1 Shock resistance 10 gn contactor opened 15 gn contactor closed Vibration resistance 2 gn 5300 Hz contactor opened 4 gn 5300 Hz contactor closed	Product certifications	UL CSA DNV RINA GOST BV LROS (Lloyds register of shipping)	
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Vibration resistance 2 gn 5300 Hz contactor opened 4 gn 5300 Hz contactor closed	Fire resistance	1562 °F (850 °C) conforming to IEC 60695-2-1	
4 gn 5300 Hz contactor closed	Shock resistance		
Heat dissipation 45 W at 50/60 Hz for control circuit	Vibration resistance	·	
	Heat dissipation	45 W at 50/60 Hz for control circuit	

Offer Sustainability

Sustainable offer status	atus Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0001 - Schneider Electric declaration of conformity	
	Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
	Available	
Product end of life instructions	duct end of life instructions Available	

Contractual warranty

Warranty period	18 months	