Product data sheet Characteristics

LC1D40G7 CONTACTOR 600VAC 40AMP IEC +OPTIONS





Main

Man			
Range of product	TeSys D	9	
Range	TeSys		
Product or component type	Contactor		
Device short name	LC1D		
Contactor application	Motor control Resistive load		
Utilisation category	AC-1 AC-2 AC-3 AC-4		
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	18.5 kW at 380400 V AC 50/60 Hz AC-3 22 kW at 1000 V AC 50/60 Hz AC-3 22 kW at 415 V AC 50/60 Hz AC-3 22 kW at 440 V AC 50/60 Hz AC-3 22 kW at 500 V AC 50/60 Hz AC-3 30 kW at 660690 V AC 50/60 Hz AC-3 11 kW at 220230 V AC 50/60 Hz AC-3 9 kW at 400 V AC 50/60 Hz AC-4		
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		
[Uc] control circuit voltage	120 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 00.01 in² (14 mm²) - cable stiffness: solid - without cable end
	Power circuit: screw clamp terminal 1 cable 00.05 in² (135 mm²) - cable stiffness: solid - without cable end
	Power circuit: screw clamp terminal 2 cable 00.04 in² (125 mm²) - cable stiffness: solid - without cable end
	Power circuit: screw clamp terminal 1 cable 00.05 in² (135 mm²) - cable stiffness: flexible - without cable end
	Control circuit: screw clamp terminal 1 cable 00.01 in² (14 mm²) - cable stiffness: flexible - with cable end
	Control circuit: screw clamp terminal 2 cable 00 in² (12.5 mm²) - cable stiffness: flexible - without cable end
	Control circuit: screw clamp terminal 2 cable 00.01 in² (14 mm²) - cable stiffness: flexible - with cable end
	Power circuit: screw clamp terminal 2 cable 00.04 in ² (125 mm ²) - cable stiffness: flexible - with cable end
	Power circuit: screw clamp terminal 2 cable 00.05 in² (135 mm²) - cable stiffness: flexible - without cable end
	Power circuit: screw terminals

Complementary

Complementary		
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	6 kV conforming to IEC 60947	
Overvoltage category	III	
Mounting support	Plate Rail	
Flame retardance	V1 conforming to UL 94	
Tightening torque	Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 44.25 lbf.in (5 N.m) - on screw clamp terminal - with screwdriver flat Ø 8 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminal - with screwdriver Philips No 2 Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminal - with screwdriver flat Ø 6 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	
Average impedance	At 50 Hz - Ith 60 A for 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) 50 Hz 15 VA at 68 °F (20 °C) (cos φ 0.3) 60 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	

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

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Standards	EN 60947-4-1	
	EN 60947-5-1	
	IEC 60947-4-1	
	IEC 60947-5-1	
	UL 508	
	CSA C22.2 No 14	
Product certifications	BV	
	CCC	
	CSA	
	DNV	
	GL	
	GOST	
	LROS (Lloyds register of shipping) RINA	
	UL	
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	-40158 °F (-4070 °C) at Uc	
Operating altitude	9842.52 ft (3000 m) without derating in temperature	
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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	
Heat dissipation	45 W at 50/60 Hz for control circuit	

Offer Sustainability

Sustainable offer status	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	
	Product Environmental Profile	
Product end of life instructions	Available	
	End of Life Information	

Contractual warranty

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Warranty period	18 months	

LC1D40G7 is replaced by:



Contactors LC1D40AG7

TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 40 A - 120 V AC 50/60 Hz coil Qty 1

Reason for Substitution: End of life | Substitution date: 01 January 2017