LC1D40V7

contactor TeSys LC1-D - 3 poles - AC-3 440V 40 A - coil 400V AC



Mair

Main	
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-2 AC-3 AC-4
Control circuit type	AC
Coil type	AC 50/60 Hz
Poles description	3P
Pole contact composition	3 NO
[le] rated operational current	40 A (<= 60 °C) at <= 440 V AC AC-3 for power circuit 60 A (<= 60 °C) at <= 440 V AC AC-1 for 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 for 3P motors conforming to CSA 10 hp at 200/208 V AC 60 Hz for 3P motors conforming to UL 10 hp at 230/240 V AC 60 Hz for 3P motors conforming to CSA 10 hp at 230/240 V AC 60 Hz for 3P motors conforming to UL 3 hp at 115 V AC 60 Hz for 1P motors conforming to CSA 3 hp at 115 V AC 60 Hz for 1P motors conforming to UL 30 hp at 460/480 V AC 60 Hz for 3P motors conforming to CSA 30 hp at 460/480 V AC 60 Hz for 3P motors conforming to UL 30 hp at 575/600 V AC 60 Hz for 3P motors conforming to UL 30 hp at 575/600 V AC 60 Hz for 3P motors conforming to CSA 30 hp at 230/240 V AC 60 Hz for 1P motors conforming to UL 5 hp at 230/240 V AC 60 Hz for 1P motors conforming to UL
Control circuit voltage	400 V AC 50/60 Hz
Connections - terminals	Control circuit: screw clamp terminal 1 cable 14 mm² - cable stiffness: solid - without cable end Control circuit: screw clamp terminal 2 cable 14 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 1 cable 135 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 2 cable 125 mm² - cable stiffness: solid - without cable end Power circuit: screw clamp terminal 1 cable 135 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 1 cable 14 mm² - cable stiffness: flexible - with cable end Control circuit: screw clamp terminal 2 cable 12.5 mm² - cable stiffness: flexible - without cable end Control circuit: screw clamp terminal 2 cable 14 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 125 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 125 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 125 mm² - cable stiffness: flexible - with cable end Power circuit: screw clamp terminal 2 cable 135 mm² - cable stiffness: flexible - with cable end

Complementary

Coil technology Without built-in bidirectional peak limiting diode suppressor	
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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 60 °C drop-out 50/60 Hz 0.81.1 Uc at 60 °C operational 50 Hz 0.851.1 Uc at 60 °C operational 60 Hz	
[Ui] rated insulation voltage	600 V for control circuit certifications CSA 600 V for control circuit certifications UL 600 V for power circuit certifications CSA 600 V for power circuit certifications UL 690 V for control circuit conforming to IEC 60947-1 690 V for power circuit conforming to IEC 60947-1	
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947	
Overvoltage category	III	
Mounting support	Plate Rail	
Flame retardance	V1 conforming to UL 94	
Tightening torque	Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 8 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm	
[Ue] rated operational voltage	<= 690 V AC 25400 Hz for power circuit	
[Ith] conventional free air thermal current	10 A at <= 60 °C for control circuit 60 A at <= 60 °C for power circuit	
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 800 A at 440 V for power circuit conforming to IEC 60947	
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947	
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for 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 20 °C (cos f 0.75) 160 VA at 20 °C (cos f 0.75)	
Hold-in power consumption in VA	13 VA at 20 °C (cos f 0.3) 60 Hz 15 VA at 20 °C (cos f 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 <= 60 °C	
Minimum switching current	5 mA for control circuit	
Minimum switching voltage	17 V for control circuit	
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts1.5 ms on energisation between NC and NO contacts	
Insulation resistance	> 10 MOhm for control circuit	
Height	127 mm	
Width	75 mm	
Depth	119 mm	
Product weight	1.4 kg	

Environment

Ota a da ada	EN 00047 4 4	
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	-560 °C
Ambient air temperature for storage	-6080 °C
Permissible ambient air temperature around the device	-4070 °C at Uc
Operating altitude	3000 m without derating in temperature
Fire resistance	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 0701 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Need no specific recycling operations

18 months

Contractual warranty

Period

