LC1D65004G6





Main

IVIAITI	
Range of product	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Resistive load
Utilisation category	AC-1
Control circuit type	AC
Coil type	Standard
Poles description	4P
Pole contact composition	4 NO
[le] rated operational current	80 A (<= 140 °F (60 °C)) AC AC-1 for power circuit
Motor power hp	10 hp at 230/240 V AC 60 Hz 1P motors conforming to CSA 10 hp at 230/240 V AC 60 Hz 1P motors conforming to UL 20 hp at 200/208 V AC 60 Hz 3P motors conforming to CSA 20 hp at 200/208 V AC 60 Hz 3P motors conforming to UL 20 hp at 230/240 V AC 60 Hz 3P motors conforming to UL 20 hp at 230/240 V AC 60 Hz 3P motors conforming to CSA 20 hp at 230/240 V AC 60 Hz 3P motors conforming to UL 5 hp at 115 V AC 60 Hz 1P motors conforming to CSA 5 hp at 115 V AC 60 Hz 1P motors conforming to UL 50 hp at 460/480 V AC 60 Hz 3P motors conforming to CSA 50 hp at 4575/600 V AC 60 Hz 3P motors conforming to UL 50 hp at 575/600 V AC 60 Hz 3P motors conforming to CSA
[Uc] control circuit voltage	120 V AC 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: flexible - 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

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
Control circuit voltage limits	0.30.6 Uc at 140 °F (60 °C) drop-out 60 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 conforming to IEC 60947
Overvoltage category	
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 Control circuit: 10.62 lbf.in (1.2 N.m) - on screw clamp terminal - with screwdriver Philips No 2 Control circuit: 10.62 lbf.in (1.2 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
System Voltage	<= 690 V AC 25400 Hz power circuit
[lth] conventional free air thermal current	10 A at <= 140 °F (60 °C) control circuit 80 A at <= 140 °F (60 °C) power circuit
Irms rated making capacity	1000 A at 440 V power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	1000 A at 440 V power circuit conforming to IEC 60947
Associated fuse rating	10 A gG control circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 1 power circuit 125 A gG at <= 690 V coordination type 2 power circuit
Average impedance	At 50 Hz - Ith 80 A for power circuit
Power dissipation per pole	6.4 W AC-1
Inrush power in VA	140 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 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	3.35 in (85 mm)
Depth	5.12 in (130 mm)
Product weight	3.17 lb(US) (1.44 kg)

Environment

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
protective treatment	TH (pollution degree: 3) conforming to IEC 60068
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
heat dissipation	45 W at 50/60 Hz for control circuit

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0701 - Schneider Electric declaration of conformity	Compliant - since 0701 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available

Contractual warranty

Warranty period	10 months
vvarrantv period	18 MONUS

