LC1D65AG7





Main

Range	TeSys
Product name	TeSys D
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
System Voltage	<= 690 V AC 25400 Hz power circuit <= 300 V DC power circuit
[le] rated operational current	80 A (<= 140 °F (60 °C)) at <= 440 V AC AC-1 power circuit 65 A (<= 140 °F (60 °C)) at <= 440 V AC AC-3 power circuit
Motor power kW	11 kW at 400 V AC 50/60 Hz AC-4 30 kW at 380400 V AC 50/60 Hz AC-3 37 kW at 500 V AC 50/60 Hz AC-3 37 kW at 660690 V AC 50/60 Hz AC-3 18.5 kW at 220230 V AC 50/60 Hz AC-3
Motor power hp	40 hp at 460/480 V AC 50/60 Hz 3 phases motors 5 hp at 115 V AC 50/60 Hz 1 phase motors 10 hp at 230/240 V AC 50/60 Hz 1 phase motors 20 hp at 200/208 V AC 50/60 Hz 3 phases motors 20 hp at 230/240 V AC 50/60 Hz 3 phases motors 50 hp at 575/600 V AC 50/60 Hz 3 phases motors
Control circuit type	AC 50/60 Hz
Control chock type	710 00/00 112
[Uc] control circuit voltage	120 V AC 50/60 Hz
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[Uc] control circuit voltage	120 V AC 50/60 Hz
[Uc] control circuit voltage Auxiliary contact composition [Uimp] rated impulse withstand	120 V AC 50/60 Hz 1 NO + 1 NC
[Uc] control circuit voltage Auxiliary contact composition [Uimp] rated impulse withstand voltage Overvoltage category	120 V AC 50/60 Hz 1 NO + 1 NC Conforming to IEC 60947
[Uc] control circuit voltage Auxiliary contact composition [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free air thermal	120 V AC 50/60 Hz 1 NO + 1 NC Conforming to IEC 60947 III 80 A at <= 140 °F (60 °C) power circuit
[Uc] control circuit voltage Auxiliary contact composition [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free air thermal current	120 V AC 50/60 Hz 1 NO + 1 NC Conforming to IEC 60947 III 80 A at <= 140 °F (60 °C) power circuit 10 A at <= 140 °F (60 °C) signalling circuit 1000 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC
[Uc] control circuit voltage Auxiliary contact composition [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free air thermal current Irms rated making capacity Rated breaking capacity [lcw] rated short-time withstand current	120 V AC 50/60 Hz 1 NO + 1 NC Conforming to IEC 60947 III 80 A at <= 140 °F (60 °C) power circuit 10 A at <= 140 °F (60 °C) signalling circuit 1000 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1 1000 A at 440 V power circuit conforming to IEC 60947-5-1 1000 A at 440 V power circuit conforming to IEC 60947 100 A 1 s signalling circuit conforming to IEC 60947 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 120 A 500 ms signalling circuit 120 A = 104 °F (40 °C) 10 s power circuit 900 A <= 104 °F (40 °C) 10 min power circuit 260 A <= 104 °F (40 °C) 1 min power circuit
[Uc] control circuit voltage Auxiliary contact composition [Uimp] rated impulse withstand voltage Overvoltage category [Ith] conventional free air thermal current Irms rated making capacity Rated breaking capacity [Icw] rated short-time withstand	120 V AC 50/60 Hz 1 NO + 1 NC Conforming to IEC 60947 III 80 A at <= 140 °F (60 °C) power circuit 10 A at <= 140 °F (60 °C) signalling circuit 1000 A at 440 V power circuit conforming to IEC 60947 140 A AC signalling circuit conforming to IEC 60947-5-1 250 A DC signalling circuit conforming to IEC 60947-5-1 1000 A at 440 V power circuit conforming to IEC 60947 100 A 1 s signalling circuit conforming to IEC 60947 100 A 1 s signalling circuit 120 A 500 ms signalling circuit 120 A 500 ms signalling circuit 140 A 100 ms signalling circuit 1520 A <= 104 °F (40 °C) 10 s power circuit 900 A <= 104 °F (40 °C) 1 s power circuit 110 A <= 104 °F (40 °C) 10 min power circuit

[Ui] rated insulation voltage	600 V power circuit certifications CSA 600 V power circuit certifications UL 690 V power circuit conforming to IEC 60947-4-1 690 V signalling circuit conforming to IEC 60947-1 600 V signalling circuit certifications CSA 600 V signalling circuit certifications UL
Electrical durability	1.45 Mcycles 65 A AC-3 at Ue <= 440 V 1.4 Mcycles 80 A AC-1 at Ue <= 440 V
Power dissipation per pole	6.3 W AC-3 9.6 W AC-1
Protective cover	With
Mounting support	Plate Rail
Standards	UL 508 CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1
Product certifications	CCC CSA GOST UL
Connections - terminals	Control circuit: screw clamp terminals 2 cable(s) 00 in² (12.5 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - without cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: flexible - with cable end Control circuit: screw clamp terminals 1 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - with cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Control circuit: screw clamp terminals 2 cable(s) 00.01 in² (14 mm²) - cable stiffness: solid - without cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: flexible - with cable end Power circuit: screw connection 2 cable(s) 125 mm² - cable stiffness: solid - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: solid - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end Power circuit: screw connection 1 cable(s) 135 mm² - cable stiffness: flexible - without cable end
Tightening torque	Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 15.04 lbf.in (1.7 N.m) - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 70.8 lbf.in (8 N.m) - on EverLink BTF screw connectors - cable 0.040.05 in² (2535 mm²) hexagonal 0.16 in (4 mm) Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal 4 mm
Operating time	1226 ms closing 419 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal
Safety feliability level	load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with

Complementary



Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc drop-out at 140 °F (60 °C), AC 50/60 Hz 0.81.1 Uc operational at 140 °F (60 °C), AC 50 Hz 0.851.1 Uc operational at 140 °F (60 °C), AC 60 Hz
Inrush power in VA	140 VA at 68 °F (20 °C) (cos φ 0.75) 60 Hz 160 VA at 68 °F (20 °C) (cos φ 0.75) 50 Hz
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
Heat dissipation	45 W at 50/60 Hz
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
Signalling circuit frequency	25400 Hz
Minimum switching current	5 mA signalling circuit
Minimum switching voltage	17 V signalling circuit
Non-overlap time	1.5 ms on de-energisation (between NC and NO contact) 1.5 ms on energisation (between NC and NO contact)
Insulation resistance	> 10 MOhm signalling circuit

Environment

IP degree of protection	IP20 front face conforming to IEC 60529
protective treatment	TH conforming to IEC 60068-2-30
pollution degree	3
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
flame retardance	V1 conforming to UL 94
mechanical robustness	Vibrations contactor open 2 Gn, 5300 Hz Vibrations contactor closed 4 Gn, 5300 Hz Shocks contactor open 10 Gn for 11 ms Shocks contactor closed 15 Gn for 11 ms
height	4.8 in (122 mm)
width	2.17 in (55 mm)
depth	4.72 in (120 mm)
product weight	1.9 lb(US) (0.86 kg)

Offer Sustainability

Green Premium product	Green Premium product
Compliant - since 0501 - Schneider Electric declaration of conformity	Compliant - since 0501 - Schneider Electric declaration of conformity
Reference not containing SVHC above the threshold	Reference not containing SVHC above the threshold
Available	Available
Available	Available
WARNING: This product can expose you to chemicals including:	WARNING: This product can expose you to chemicals including:
Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer.	Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer.
For more information go to www.p65warnings.ca.gov	For more information go to www.p65warnings.ca.gov

Contractual warranty

Warranty period	18 months

