



CONTACTOR 600VAC 65AMP IEC +OPTIONS

LC1D65Q7

- ! Discontinued on: Jul 12, 2021
- ! End-of-service on: Aug 2, 2021

! Discontinued

Main

Range	TeSys
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load Motor control
Utilisation Category	AC-1 AC-3 AC-2 AC-3
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz
[le] Rated Operational Current	65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit
[Uc] Control Circuit Voltage	125 V DC

Complementary

Motor Power Kw	11 kW at 400 V AC 50 Hz (AC-4)
	30 kW at 380400 V AC 50 Hz (AC-3)
	37 kW at 500 V AC 50 Hz (AC-3)
	37 kW at 660690 V AC 50 Hz (AC-3)
	18.5 kW at 220230 V AC 50 Hz (AC-3)
	30 kW at 415 V AC 50 Hz (AC-3)
	37 kW at 1000 V AC 50 Hz (AC-3)
	25 kW at 415 V AC 50 Hz
	22 kW at 380400 V AC 50 Hz
Motor Power Hp	10 hp at 230/240 V AC 60 Hz for 1 phase motors
	20 hp at 200/208 V AC 60 Hz for 3 phases motors
	20 hp at 230/240 V AC 60 Hz for 3 phases motors
	40 hp at 460/480 V AC 60 Hz for 3 phases motors
	50 hp at 575/600 V AC 60 Hz for 3 phases motors
	7.5 hp at 230/240 V AC 60 Hz for 1 phase motors
	3 hp at 115 V AC 60 Hz for 1 phase motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
SUL 1 Comment of the	80 A (at 140 °F (60 °C)) for power circuit
[Ith] Conventional Free Air	OUA (at 140 F (bu C)) for power circuit

Irms Rated Making Capacity	140 A AC for control circuit conforming to IEC 60947-5-1
inis Nated Making Capacity	900 A at 440 V for power circuit conforming to IEC 60947
	250 A DC for control circuit conforming to IEC 60947-5-1
Rated Breaking Capacity	900 A at 440 V for power circuit conforming to IEC 60947
Associated Fuse Rating	125 A gG at <= 690 V coordination type 1 for power circuit
	125 A gG at <= 690 V coordination type 2 for power circuit conforming to IEC
	60947-5-1
	100 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1
Power Dissipation Per Pole	6.4 W AC-1
	9.6 W AC-1
	3.7 W AC-3
[Ui] Rated Insulation Voltage	Control circuit 600 V UL
	Power circuit 600 V CSA
	Power circuit 600 V UL IEC 60947-1
	Control circuit 690 V IEC 60947-1
	Power circuit 690 V CSA IEC 60947-1
	Control circuit 600 V CSA
Overvoltage Category	III
[Uimp] Rated Impulse Withstand Voltage	8 kV IEC 60947
Safety Reliability Level	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
Mechanical Durability	10000000 cycles
Control Circuit Type	DC standard
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz
	0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz
	11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz
	0.751.25 Uc -40140 °F (-4060 °C) operational DC
	0.10.3 Uc -40158 °F (-4070 °C) drop-out DC
Inrush Power In Va	160 VA cos phi 0.75 (at 68 °F (20 °C))
Inrush Power In W	19 W 68 °F (20 °C))
Hold-In Power Consumption In Va	15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Hold-In Power Consumption In W	7.4 W 68 °F (20 °C)
Rated Operational Power In W	12 W 125 V DC-13 10000000 cycles control circuit 38 W 125 V DC-13 3000000 cycles control circuit
Operating Time	1226 ms closing
	50 ms closing
	20 ms opening
Time Constant	34 ms
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)

Connections - Terminals	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: rigid without cable end
	Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:
	flexible without cable end Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:
	flexible without cable end
	Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:
	flexible with cable end
	Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness: rigid Power circuit: screw terminals 2 0.000.02 in² (2.516 mm²) - cable stiffness: rigid without cable end
	Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness:
	flexible without cable end Power circuit: screw terminals 2 0.000.02 in² (2.516 mm²) - cable stiffness:
	flexible without cable end
	Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness: flexible with cable end
	Power circuit: screw terminals 2 0.000.02 in² (2.510 mm²) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:
	rigid Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:
	rigid
Tightening Torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Philips No 2
	Power circuit 44.25 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2 Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm
Auxiliary Contact Composition	1 NO + 1 NC
Auxiliary Contacts Type	Mirror contest 4 NC IFC COO47 4 4
Auxiliary Contacts Type	Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC IEC 60947-5-1
Terminals Description Iso N°1	(13-14)NO (A1-A2)CO
Minimum Switching Voltage	17 V for control circuit
Minimum Switching Current	5 mA for control circuit
Insulation Resistance	> 10 MOhm for control circuit
Non-Overlap Time	1.5 ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts
Mounting Support	Plate Rail
Environment	
Standards	IEC 60947-5-1
	EN 60947-4-1
	UL 508 IEC 60947-4-1
	CSA C22.2 No 14
Product Certifications	LROS (Lloyds register of shipping)
	GL
	UL BV
	CSA
	CCC
	RINA GOST
	CSA
Ip Degree Of Protection	IP2X VDE 0106 IP2X IEC 60529
Climatic Withstand	IACS E10 exposure to damp heat
Operating Altitude	03000 m
Fire Resistance	1562 °F (850 °C) IEC 60695-2-1

Flame Retardance	V1 UL 94	
Mechanical Robustness	Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz) Shocks contactor opened 10 Gn for 11 ms)	
Height	5.00 in (127 mm)	
Width	3.35 in (85 mm)	
Depth	6.93 in (176 mm)	
Net Weight	4.82 lb(US) (2.185 kg)	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.74 in (9.5 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	5.51 in (14 cm)
Package 1 Weight	3.19 lb(US) (1.446 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information