LC1D65M7

IEC contactor, TeSys D, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 220VAC 50/60Hz coil, open





Main

Range	TeSys
Range of Product	TeSys Deca
Product or Component Type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-2 AC-4 AC-3e AC-1
Poles description	3P
Poles description [Ue] rated operational voltage	3P Power circuit <= 690 V AC 25400 Hz
[Ue] rated operational	

Complementary

Complementary	
Motor power kW	30 KW at 380400 V AC 50 Hz 37 KW at 500 V AC 50 Hz 37 KW at 660690 V AC 50 Hz 18.5 KW at 220230 V AC 50 Hz 30 KW at 415 V AC 50 Hz 37 KW at 1000 V AC 50 Hz (AC-3) 25 KW at 415 V AC 50 Hz (AC-3) 22 kW at 380400 V AC 50 Hz (AC-3)
Maximum Horse Power Rating	10 Hp at 230/240 V AC 60 Hz for 1 phase motors 20 Hp at 200/208 V AC 60 Hz for 3 phase motors 20 Hp at 230/240 V AC 60 Hz for 3 phase motors 40 Hp at 460/480 V AC 60 Hz for 3 phase motors 50 Hp at 575/600 V AC 60 Hz for 3 phase 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
[lth] conventional free air thermal current	80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for control circuit
Irms rated making capacity	140 A at 440 V AC for control circuit conforming to IEC 60947-5-1 140 A AC for control circuit conforming to IEC 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947
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 4.2 W AC-3e 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	6000000 cycles
Control circuit type	AC 50/60 Hz
Coil technology	Without 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 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz
Inrush power in VA	160 VA cos phi 0.75 (at 68 °F (20 °C)) 140 VA cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	45 W at 50/60 Hz for control circuit
Operating time	1226 ms closing 419 ms opening
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	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
• •	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 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
Tightening torque Auxiliary contact composition Auxiliary contacts type	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 Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: rigid 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 Auxiliary contacts type	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 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 1 NO + 1 NC Mirror contact 1 NC IEC 60947-4-1
Auxiliary contact composition	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 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 1 NO + 1 NC Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC IEC 60947-5-1 (21-22)NC

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 Plate	

Environment

Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 UL 508 IEC 60947-4-1
Product Certifications	DNV[RETURN]LROS (Lloyds register of shipping) [RETURN]CCC[RETURN]CSA[RETURN]BV[RETURN]UL[RETURN]GL[RETURN]GOST[RE
IP degree of protection	IP2X VDE 0106 IP2X IEC 60529
Climatic withstand	IACS E10 exposure to damp heat
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to 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	2.95 in (75 mm)
Depth	4.69 in (119 mm)
Net Weight	3.09 lb(US) (1.4 kg)

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0112
GTIN	3389110437287
Returnability	Yes
Country of origin	CZ

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	5.20 in (13.2 cm)
Package 1 Length	5.51 in (14.0 cm)
Package 1 Weight	3.19 lb(US) (1.447 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	16.68 lb(US) (7.566 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov
REACh Regulation	REACh Declaration
REACh free of SVHC	Yes
EU RoHS Directive	Compliant EEU RoHS Declaration

Toxic heavy metal free	Yes
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	₫Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes
Contractual warranty	
Contractual warranty	
Warranty	18 months