

TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 220 V DC coil

LC1D2565MD

! Discontinued

Main

Range	TeSys	
Range Of Product	TeSys D	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Resistive load Motor control	
Utilisation Category	AC-1 AC-3	
Poles Description	3P	
[Ue] Rated Operational Voltage	ge Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] Rated Operational Current	25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	220 V DC	

Complementary

Motor Power Kw	5.5 kW at 220230 V AC 50/60 Hz			
	11 kW at 380400 V AC 50/60 Hz			
	11 kW at 415440 V AC 50/60 Hz			
	15 kW at 500 V AC 50/60 Hz			
	15 kW at 660690 V AC 50/60 Hz			
Motor Power Hp	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors			
	2 hp at 115 V AC 50/60 Hz for 1 phase motors			
	7.5 hp at 230/240 V AC 50/60 Hz for 3 phases motors			
	15 hp at 460/480 V AC 50/60 Hz for 3 phases motors			
	20 hp at 575/600 V AC 50/60 Hz for 3 phases motors			
	7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors			
Compatibility Code	LC1D			
Pole Contact Composition	3 NO			
Protective Cover	Without			
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit			
Thermal Current	40 A (at 60 °C) for power circuit			
Irms Rated Making Capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1			
	250 A DC for signalling circuit conforming to IEC 60947-5-1			
	450 A at 440 V for power circuit conforming to IEC 60947			
Rated Breaking Capacity	450 A at 440 V for power circuit conforming to IEC 60947			

[lcw] Rated Short-Time Withstand Current	240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 120 A 40 °C - 1 min for power circuit 100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit			
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit			
Average Impedance	2 mOhm - Ith 40 A 50 Hz for power circuit			
Power Dissipation Per Pole	3.2 W AC-1 1.25 W AC-3			
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified			
Overvoltage Category	III			
Pollution Degree	3			
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947			
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	30 Mcycles			
Electrical Durability	1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V			
Control Circuit Type	DC standard			
Control Circuit Type Coil Technology	DC standard Built-in bidirectional peak limiting diode suppressor			
Coil Technology	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC			
Coil Technology Control Circuit Voltage Limits	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC			
Coil Technology Control Circuit Voltage Limits Inrush Power In W	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C)			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Control circuit: lugs-ring terminals - external diameter: 8 mm			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 10 mm Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M4			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 5.4 W at 20 °C 5.572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 10 mm Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 10 mm Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition Auxiliary Contacts Type	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 10 mm Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1			
Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition Auxiliary Contacts Type Signalling Circuit Frequency	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-6070 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 10 mm Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1			

Non-Overlap Time	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact			
Mounting Support	Rail Plate			
Environment				
Standards	CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508			
Product Certifications	CSA GOST BV RINA DNV UL CCC GL LROS (Lloyds register of shipping)			
Ip Degree Of Protection	IP20 front face conforming to IEC 60529			
Protective Treatment	TH conforming to IEC 60068-2-30			
Climatic Withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat			
Permissible Ambient Air Temperature Around The Device	-6080 °C storage -4060 °C operation 6070 °C with derating			
Operating Altitude	03000 m			
Fire Resistance	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 closed (15 Gn for 11 ms) Shocks contactor open (8 Gn for 11 ms)			
Height	85 mm			
Width	45 mm			
Depth	99 mm			

Packing Units

Net Weight

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

0.53 kg

Contractual warranty

Warrantv	18 months	