



TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 12 V DC coil

LC1D0965JL

! Discontinued

Main

Range	TeSys	
Range Of Product	TeSys D	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Motor control Resistive load	
Utilisation Category	AC-3 AC-1	
Poles Description	3P	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] Rated Operational Current	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	12 V DC	

Complementary

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Motor Power Kw	2.2 kW at 220230 V AC 50/60 Hz 4 kW at 380400 V AC 50/60 Hz		
	4 kW at 415440 V AC 50/60 Hz		
	5.5 kW at 500 V AC 50/60 Hz		
	5.5 kW at 660690 V AC 50/60 Hz		
Motor Power Hp	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors		
	2 hp at 200/208 V AC 50/60 Hz for 3 phases motors		
	2 hp at 230/240 V AC 50/60 Hz for 3 phases motors		
	5 hp at 460/480 V AC 50/60 Hz for 3 phases motors		
	7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors		
	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors		
Compatibility Code	LC1D		
Pole Contact Composition	3 NO		
Contact Compatibility	M5		
Protective Cover	Without		
[Ith] Conventional Free Air	25 A (at 60 °C) for power circuit		
Thermal Current	10 A (at 60 °C) for signalling circuit		
Irms Rated Making Capacity	250 A at 440 V for power circuit conforming to IEC 60947		
	140 A AC for signalling circuit conforming to IEC 60947-5-1		
	250 A DC for signalling circuit conforming to IEC 60947-5-1		
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947		

[Icw] Rated Short-Time Withstand Current	105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 30 A 40 °C - 10 min for power circuit 61 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 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit			
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit			
Power Dissipation Per Pole	1.56 W AC-1 0.2 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	0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V			
Control Circuit Type	DC low consumption			
Coil Technology	Built-in bidirectional peak limiting diode suppressor			
Control Circuit Voltage Limits	0.10.3 Uc (-4070 °C):drop-out DC 0.81.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC			
Inrush Power In W	2.4 W (at 20 °C)			
Hold-In Power Consumption In W	2.4 W at 20 °C			
Operating Time	65.4588.55 ms closing 2030 ms opening			
Time Constant	40 ms			
Maximum Operating Rate	3600 cyc/h 60 °C			
Connections - Terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 8 mm			
Tightening Torque	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: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M3.5 Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5			
Auxiliary Contact Composition	1 NO + 1 NC			
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 Voltage	17 V for signalling circuit			
Minimum Switching Current	5 mA for signalling circuit			
Insulation Resistance	> 10 MOhm for 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			
Mounting Support	Plate Rail			
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	UL DNV RINA GL GOST BV CSA CCC 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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)			
Height	77 mm			
Width	45 mm			
Depth	93 mm			
Net Weight	0.48 kg			

Packing Units

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

Contractual warranty

Warrantv	18 months	