

# TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 100 V DC coil

LC1D096KL

! 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-1 AC-3	
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	100 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	With	
[Ith] Conventional Free Air Thermal Current	25 A (at 60 °C) for power circuit 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	The state of the s		
Auxiliary Contact Composition  Auxiliary Contacts Type	Power 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 Philips No 2 M3.5  1 NO + 1 NC  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1		
Auxiliary Contacts Type	Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5  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		
Auxiliary Contacts Type  Signalling Circuit Frequency	Power circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5  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  25400 Hz		

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	BV LROS (Lloyds register of shipping) UL RINA GOST CCC GL DNV CSA		
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	95 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	