

# TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 250 V DC coil

LC1D0965UD

(!) 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			
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	250 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	M4		
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 standard		
Coil Technology	Built-in bidirectional peak limiting diode suppressor		
Control Circuit Voltage Limits	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)		
Inrush Power In W	5.4 W (at 20 °C)		
Inrush Power In W Hold-In Power Consumption In W	5.4 W (at 20 °C) 5.4 W at 20 °C		
Hold-In Power Consumption In W	5.4 W at 20 °C 53.5572.45 ms closing		
Hold-In Power Consumption In W Operating Time	5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening		
Hold-In Power Consumption In W Operating Time Time Constant	5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening 28 ms		
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate	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		
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals	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: 8 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: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 8 mm M3.5		
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque	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: 8 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: 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		
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition	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: 8 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: 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  1 NO + 1 NC  type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1		
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque  Auxiliary Contact Composition Auxiliary Contacts Type	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: 8 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: 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  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		
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	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: 8 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: 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 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	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	CCC BV RINA CSA DNV UL GOST 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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)		
Height	77 mm		
Width	45 mm		
Depth	93 mm		

## **Packing Units**

Net Weight

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

0.48 kg

## **Contractual warranty**

Warranty	18 months	