



TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 60 V DC coil

LC1D256ND

! 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	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	60 V DC

Complementary

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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
Contact Compatibility	M4
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 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 - 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
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
Inrush Power In W	5.4 W (at 20 °C)
Hold-In Power Consumption In W	
	5.4 W at 20 °C
Operating Time	5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening
	53.5572.45 ms closing
Operating Time	53.5572.45 ms closing 1624 ms opening
Operating Time Time Constant	53.5572.45 ms closing 1624 ms opening 28 ms
Operating Time Time Constant Maximum Operating Rate	53.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Control circuit: lugs-ring terminals - external diameter: 8 mm
Operating Time Time Constant Maximum Operating Rate Connections - Terminals	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
Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque	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 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M4
Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition	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 Phillips No 2 M3.5 Power circuit: 2.5 N.m - on lugs-ring terminals - with screwdriver Phillips No 2 M4 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition Auxiliary Contacts Type	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 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
Operating Time Time Constant Maximum Operating Rate Connections - Terminals Tightening Torque Auxiliary Contact Composition Auxiliary Contacts Type Signalling Circuit Frequency	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 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
Storap inio	1.5 ms on energisation between NC and NO contact
Mounting Support	Rail Plate
	riate
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	LROS (Lloyds register of shipping)
	DNV RINA
	GL
	CCC
	GOST
	BV
	CSA
	UL
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	-6080 °C storage
Temperature Around The Device	-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	101 mm
Net Weight	0.53 kg
5 1	
Packing Units	

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

Contractual warranty

Warranty	18 months
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