

TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 200 V AC coil

LC1D255L7

! 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	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	200 V AC 50/60 Hz

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	M2
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

[Icw] Rated Short-Time Withstand	240 A 40 °C - 10 s for power circuit
Current	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
	100 A - 1 s for signalling circuit
	120 A - 500 ms for signalling circuit
	140 A - 100 ms for signalling circuit
	- To the following cheat
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
ū	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
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Mechanical Durability Electrical Durability Control Circuit Type Coil Technology	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 15 Mcycles 1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V AC at 50/60 Hz Without built-in suppressor module
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Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 15 Mcycles 1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V AC at 50/60 Hz Without built-in suppressor module 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
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Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 15 Mcycles 1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V AC at 50/60 Hz Without built-in suppressor module 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz 70 VA 60 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.75 (at 20 °C)
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Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In Va Hold-In Power Consumption In Va Heat Dissipation	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1 15 Mcycles 1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V AC at 50/60 Hz Without built-in suppressor module 0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz 70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.3 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz

Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end
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Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without
cable end
Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without
cable end Power circuit: screw clamp terminals 1 2.510 mm² - cable stiffness: flexible without
cable end Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: flexible without
cable end Power circuit: screw clamp terminals 1 110 mm² - cable stiffness: flexible with
cable end Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: flexible with cable end
Power circuit: screw clamp terminals 1 1.510 mm² - cable stiffness: solid without cable end
Power circuit: screw clamp terminals 2 2.510 mm² - cable stiffness: solid without cable end
Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 2.5 N.m - on screw clamp terminals - with screwdriver Philips No 2
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
17 V for signalling circuit
5 mA for signalling circuit
> 10 MOhm for signalling circuit
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Rail Plate
CSA C22.2 No 14 EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 UL 508
CSA DNV CCC
GL BV GOST
LROS (Lloyds register of shipping) RINA UL
IP20 front face conforming to IEC 60529
TH conforming to IEC 60068-2-30
•
conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat

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	90 mm	
Net Weight	0.37 kg	

Packing Units

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

Contractual warranty

Warranty 18 months