

TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 200 V DC coil

LC1D18LD

(!) Discontinued

Main

Range	TeSys	
Range Of Product	TeSys Deca	
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	18 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	200 V DC	

Complementary

Motor Power Kw	4 kW at 220230 V AC 50/60 Hz
	7.5 kW at 380400 V AC 50/60 Hz
	9 kW at 415440 V AC 50/60 Hz
	10 kW at 500 V AC 50/60 Hz
	10 kW at 660690 V AC 50/60 Hz
Motor Power Hp	1 hp at 115 V AC 50/60 Hz for 1 phase motors
	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	5 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	5 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	10 hp at 460/480 V AC 50/60 Hz for 3 phases motors
	15 hp at 575/600 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	10 A (at 60 °C) for signalling circuit
Thermal Current	32 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
	300 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	300 A at 440 V for power circuit conforming to IEC 60947

[Icw] Rated Short-Time Withstand	145 A 40 °C - 10 s for power circuit
Current	240 A 40 °C - 1 s for power circuit
	40 A 40 °C - 10 min for power circuit
	84 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
· ·	50 A gG at <= 690 V coordination type 1 for power circuit
	35 A gG at <= 690 V coordination type 2 for power circuit
	- Contract Contraction type 2 for power stream
Average Impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
Power Dissipation Per Pole	2.5 W AC-1
	0.8 W AC-3
	0.0 W A0-0
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1
[]atoa moalation voitage	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
outery remaining zeroi	·
	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO
	13849-1
Mechanical Durability	30 Mcycles
Electrical Durability	1.65 Mcycles 18 A AC-3 at Ue <= 440 V
Darability	1.05 Mcycles 16 A AC-3 at 06 <= 440 V 1 Mcycles 32 A AC-1 at Ue <= 440 V
	1 WILLYOLGS 02 M MC-1 at UE \- 440 V
Control Circuit Type	DC standard
Coil Technology	With integral suppression device
Control Circuit Voltage Limits	0.1
Control Official 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	53 55 72 45 mg closing
Operating Time	53.5572.45 ms closing
	1624 ms opening
Time Constant	29 mc
Time Constant	28 ms
Maximum Operating Rate	3600 cyc/h 60 °C
	5555 5,5, 55 6

Connections - Terminals	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 Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without
	cable end
	Power circuit: screw clamp terminals 1 1.56 mm ² - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminals 2 1.56 mm ² - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminals 1 16 mm² - cable stiffness: flexible with cable end
	Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible with cable end
	Power circuit: screw clamp terminals 1 1.56 mm² - cable stiffness: solid without cable end
	Power circuit: screw clamp terminals 2 1.56 mm² - cable stiffness: solid without cable end
Tightening Torque	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm
	Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 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
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
otanuai us	EN 60947-4-1
	EN 60947-5-1 IEC 60947-4-1
	IEC 60947-5-1 UL 508
Product Certifications	CCC
	GOST
	BV LROS (Lloyds register of shipping)
	CSA
	UL DNV
	GL
	RINA
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
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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	0.49 kg	

Packing Units

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

Contractual warranty

Warranty 18 months