

## TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 18 A - 96 V DC coil

LC1D1835DD

! 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	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 18 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
[Uc] Control Circuit Voltage	96 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	Without
[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	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		
Current	145 A 40 °C - 10 s for power circuit 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	
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit	
Power Dissipation Per Pole	2.5 W AC-1 0.8 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 18 A AC-3 at Ue <= 440 V 1 Mcycles 32 A AC-1 at Ue <= 440 V	
Control Circuit Type	DC standard	
Coil Technology	With integral suppression device	
Control Circuit Voltage Limits	With integral suppression device  0.10.25 Uc (-4070 °C):drop-out DC  0.71.25 Uc (-4060 °C):operational DC  11.25 Uc (6070 °C):operational DC	
	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC	
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	
Control Circuit Voltage Limits  Inrush Power In W	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)	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W	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)  5.4 W at 20 °C  53.5572.45 ms closing	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time	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)  5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time  Time Constant	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) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening 28 ms	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time  Time Constant  Maximum Operating Rate	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)  5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening  28 ms  3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time  Time Constant  Maximum Operating Rate  Connections - Terminals	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)  5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening  28 ms  3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time  Time Constant  Maximum Operating Rate  Connections - Terminals  Auxiliary Contact Composition	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)  5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening  28 ms  3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end 1 NO + 1 NC	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time  Time Constant  Maximum Operating Rate  Connections - Terminals  Auxiliary Contact Composition  Auxiliary Contacts Type	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)  5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening  28 ms  3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end 1 NO + 1 NC	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time  Time Constant  Maximum Operating Rate  Connections - Terminals  Auxiliary Contact Composition  Auxiliary Contacts Type  Signalling Circuit Frequency	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)  5.4 W at 20 °C  53.5572.45 ms closing 1624 ms opening  28 ms  3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 1.5 mm² - cable stiffnes	
Control Circuit Voltage Limits  Inrush Power In W  Hold-In Power Consumption In W  Operating Time  Time Constant  Maximum Operating Rate  Connections - Terminals  Auxiliary Contact Composition  Auxiliary Contacts Type  Signalling Circuit Frequency  Minimum Switching Voltage	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) 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing 1624 ms opening  28 ms 3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end 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	

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	CSA GL RINA CCC UL BV DNV GOST 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	99 mm	
Width	45 mm	
Depth	99 mm	
Net Weight	0.49 kg	
Packing Units		
Unit Type Of Package 1	PCE	

Contractual	warrantv
Contractual	waiiaiity

Number Of Units In Package 1

Warranty 18 months