

TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 110 V DC coil

LC1D0935FD

! 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	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 16 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	110 V DC	

Complementary

o o mpromontar y	
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
Motor Power Hp	5.5 kW at 660690 V AC 50/60 Hz 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 Thermal Current	10 A (at 60 °C) for signalling circuit 16 A (at 60 °C) for power 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 16 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 Limite	0.10.25 Uc (-4070 °C):drop-out DC
Control Circuit Voltage Limits	0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC
Inrush Power In W	0.71.25 Uc (-4060 °C):operational DC
	0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC
Inrush Power In W	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 Hold-In Power Consumption In W	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
Inrush Power In W Hold-In Power Consumption In W Operating Time	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
Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant	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
Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate	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 Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end
Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals	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 Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 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 Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end
Inrush Power In W Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition	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 5.3.5572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 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 Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 1 NO + 1 NC
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	0.71.25 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 Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 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 Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 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
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	0.71.25 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 Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 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 Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 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
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	0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 5.572.45 ms closing 1624 ms opening 28 ms 3600 cyc/h 60 °C Power circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end 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 Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 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

Plate Rail		
Standards CSA C22.2 No 14 EN 60947-4-1 EN 60947-4-1 EN 60947-4-1 IEC 60947-5-1 UL 508 Product Certifications BV GOST CSA CCC GL LROS (Lloyds register of shipping) DNV RINA 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 IEC 60947-1 Annex Q category D exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat conforming to IEC 60947-1 When the detailing Permissible Ambient Air 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 open (10 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms) Shocks contactor open (10 Gn for 11 ms) Height 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Mounting Support	
EN 60947-4-1 EN 60947-5-1 IEC 60947-5-1 IEC 60947-5-1 UL 509 Product Certifications BV GOST CSA CCC GL LROS (Lloyds register of shipping) DNV RINA UL Ip Degree Of Protection IP20 front face conforming to IEC 600529 Protective Treatment TH conforming to IEC 60068-2-30 Climatic Withstand conforming to IEC 60068-2-30 Climatic Withstand conforming to IEC 60047-1 Annex Q category D exposure to damp heat conforming to IEC 60047-1 Annex Q category D exposure to damp heat Permissible Ambient Air Temperature Around The Device -6080 °C storage -4080 °C storage -4080 °C coperation 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) Shocks contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) Height 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Environment	
GOST CSA CCC GL LROS (Lloyds register of shipping) DNV RINA 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 Temperature Around The Device -6080 °C corperation 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) Shocks contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Height 80 mm Width 45 mm Depth 93 mm Net Weight O.48 kg	Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1
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 -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 open (15 Gn for 11 ms) Height 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Product Certifications	GOST CSA CCC GL LROS (Lloyds register of shipping) DNV RINA
Climatic Withstand conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat -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 open (10 Gn for 11 ms) Shocks contactor closed (4 Gn, 5300 Hz) Shocks contactor closed (15 Gn for 11 ms) Height 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Ip Degree Of Protection	IP20 front face conforming to IEC 60529
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 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Protective Treatment	TH conforming to IEC 60068-2-30
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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) Height 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Climatic Withstand	
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 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg		-4060 °C operation
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 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Operating Altitude	03000 m
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 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg	Fire Resistance	850 °C conforming to IEC 60695-2-1
Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) Height 80 mm Width 45 mm Depth 93 mm Net Weight 0.48 kg Packing Units	Flame Retardance	V1 conforming to UL 94
Width 45 mm Depth 93 mm Net Weight 0.48 kg Packing Units	Mechanical Robustness	Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor open (10 Gn for 11 ms)
Depth 93 mm Net Weight 0.48 kg Packing Units	Height	80 mm
Net Weight 0.48 kg Packing Units	Width	45 mm
Packing Units	Depth	93 mm
	Net Weight	0.48 kg
	Packing Units	
	Unit Type Of Package 1	PCE

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

Contractual warranty

Warranty	18 months