

TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 125 V DC coil

LC1D1235GD

! 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-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	16 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
[Uc] Control Circuit Voltage	125 V DC

Complementary

Motor Power Kw	3 kW at 220230 V AC 50/60 Hz
	5.5 kW at 380400 V AC 50/60 Hz
	5.5 kW at 415440 V AC 50/60 Hz
	7.5 kW at 500 V AC 50/60 Hz
	7.5 kW at 660690 V AC 50/60 Hz
Motor Power Hp	0.5 hp at 115 V AC 50/60 Hz for 1 phase motors
	2 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	3 hp at 200/208 V AC 50/60 Hz for 3 phases motors
	3 hp at 230/240 V AC 50/60 Hz for 3 phases motors
	7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors
	10 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	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 40 A gG at <= 690 V coordination type 1 for power circuit 25 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	0.36 W AC-3 1.56 W AC-1
[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	2 Mcycles 12 A AC-3 at Ue <= 440 V 0.8 Mcycles 25 A AC-1 at Ue <= 440 V
Control Circuit Type	DC standard
Coil Technology	With integral suppression device
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	· · · · · · · · · · · · · · · · · · ·
Inrush Power In W Hold-In Power Consumption In W	11.25 Uc (6070 °C):operational DC
	11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C)
Hold-In Power Consumption In W	11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 53.5572.45 ms closing
Hold-In Power Consumption In W Operating Time	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
Hold-In Power Consumption In W Operating Time Time Constant	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
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate	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
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals	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
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition	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 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition Auxiliary Contacts Type	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 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
Hold-In Power Consumption In W Operating Time Time Constant Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition Auxiliary Contacts Type Signalling Circuit Frequency	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 1 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
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	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 T 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 UL DNV GOST LROS (Lloyds register of shipping) RINA BV GL CCC
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	93 mm
Net Weight	0.485 kg
Packing Units	
Unit Type Of Package 1	PCE
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Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months