

TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 32 A - 36 V DC coil

LC1D3235CD

(!) Discontinued

Main

Range	TeSys
Range Of Product	TeSys D
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load Motor control
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-1 for power circuit 32 A (at <60 °C) at <= 440 V AC AC-3 for power circuit
[Uc] Control Circuit Voltage	36 V DC

Complementary

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Motor Power Kw	7.5 kW at 220230 V AC 50/60 Hz 15 kW at 380400 V AC 50/60 Hz 15 kW at 415440 V AC 50/60 Hz 18.5 kW at 500 V AC 50/60 Hz 18.5 kW at 660690 V AC 50/60 Hz
Motor Power Hp	2 hp at 115 V AC 50/60 Hz for 1 phase motors 5 hp at 230/240 V AC 50/60 Hz for 1 phase motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors 10 hp at 230/240 V AC 50/60 Hz for 3 phases motors 20 hp at 460/480 V AC 50/60 Hz for 3 phases motors 30 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 50 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 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	550 A at 440 V for power circuit conforming to IEC 60947

[Icw] Rated Short-Time Withstand Current	
Current	260 A 40 °C - 10 s for power circuit 430 A 40 °C - 1 s for power circuit 60 A 40 °C - 10 min for power circuit 138 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 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2 mOhm - Ith 50 A 50 Hz for power circuit
Power Dissipation Per Pole	2 W AC-3 5 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	1.65 Mcycles 32 A AC-3 at Ue <= 440 V 1.4 Mcycles 50 A AC-1 at Ue <= 440 V
Control Circuit Type	DC standard
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC
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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 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 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	GL BV CSA CCC LROS (Lloyds register of shipping) GOST UL RINA DNV
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 closed (15 Gn for 11 ms) Shocks contactor open (8 Gn for 11 ms)
Height	99 mm
Width	45 mm
Depth	99 mm
Net Weight	0.535 kg
Packing Units	
Unit Type Of Package 1	PCE

Contractual warranty

Number Of Units In Package 1

Warranty 18 months