

# TeSys Deca contactor - 3P(3 NO) - AC-3 - <= 440 V 25 A - 600 V AC coil

LC1D2535X7

#### ! Discontinued

#### Main

Range	TeSys	
Range Of Product	TeSys D	
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	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-3 for power circuit	
[Uc] Control Circuit Voltage	600 V AC 50/60 Hz	

### Complementary

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Motor Power Kw	5.5 kW at 220230 V AC 50/60 Hz 11 kW at 380400 V AC 50/60 Hz 11 kW at 415440 V AC 50/60 Hz 15 kW at 500 V AC 50/60 Hz 15 kW at 660690 V AC 50/60 Hz		
Motor Power Hp	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors 2 hp at 115 V AC 50/60 Hz for 1 phase motors 7.5 hp at 230/240 V AC 50/60 Hz for 3 phases motors 15 hp at 460/480 V AC 50/60 Hz for 3 phases motors 20 hp at 575/600 V AC 50/60 Hz for 3 phases motors 7.5 hp at 200/208 V AC 50/60 Hz for 3 phases motors		
Compatibility Code	LC1D		
Pole Contact Composition	3 NO		
Contact Compatibility	M2		
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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947		
Rated Breaking Capacity	450 A at 440 V for power circuit conforming to IEC 60947		

[Icw] Rated Short-Time Withstand Current	240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 120 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 40 A gG at <= 690 V coordination type 2 for power circuit			
Average Impedance	2 mOhm - Ith 25 A 50 Hz for power circuit			
Power Dissipation Per Pole	3.2 W AC-1 1.25 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	15 Mcycles			
Electrical Durability	1.65 Mcycles 25 A AC-3 at Ue <= 440 V 1.4 Mcycles 40 A AC-1 at Ue <= 440 V			
Control Circuit Type	AC at 50/60 Hz			
Coil Technology	Without built-in suppressor module			
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz			
Control Circuit Voltage Limits  Inrush Power In Va	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz			
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Inrush Power In Va	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz 70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C)			
Inrush Power In Va Hold-In Power Consumption In Va	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz  70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)			
Inrush Power In Va Hold-In Power Consumption In Va Heat Dissipation	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz  70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C)  7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C)  23 W at 50/60 Hz			
Inrush Power In Va Hold-In Power Consumption In Va Heat Dissipation Operating Time	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz 70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz 1222 ms closing 419 ms opening			
Inrush Power In Va  Hold-In Power Consumption In Va  Heat Dissipation  Operating Time  Maximum Operating Rate	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz  70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7.5 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz  1222 ms closing 419 ms opening  3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end			
Inrush Power In Va Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate Connections - Terminals	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz  70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz  1222 ms closing 419 ms opening  3600 cyc/h 60 °C  Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control 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			
Inrush Power In Va  Hold-In Power Consumption In Va  Heat Dissipation  Operating Time  Maximum Operating Rate  Connections - Terminals  Auxiliary Contact Composition	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz  70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7.5 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz  1222 ms closing 419 ms opening  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 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 Power circuit: spring terminals 2 4 mm² - cable stiffness: flexible without cable end			
Inrush Power In Va Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate Connections - Terminals Auxiliary Contact Composition Auxiliary Contacts Type	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz  70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz  1222 ms closing 419 ms opening  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 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 4 mm²			
Inrush Power In Va Hold-In Power Consumption In Va Heat Dissipation Operating Time Maximum Operating Rate Connections - Terminals  Auxiliary Contact Composition Auxiliary Contacts Type  Signalling Circuit Frequency	0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz  70 VA 60 Hz cos phi 0.75 (at 20 °C) 70 VA 50 Hz cos phi 0.75 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7.5 VA 60 Hz cos phi 0.3 (at 20 °C) 7.5 VA 50 Hz cos phi 0.3 (at 20 °C) 23 W at 50/60 Hz  1222 ms closing 419 ms opening  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 1 thm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 thm² - cable stiffness: flexible without cable end Power circuit: spring terminals 2 thm² - cable stiffness: flexible without cable end 1 NO + 1 NC			

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	Rail Plate		
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	UL LROS (Lloyds register of shipping) GL CSA CCC GOST RINA DNV BV		
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	90 mm		
Net Weight	0.37 kg		
Packing Units			

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

## **Contractual warranty**

Warranty	18 months	