Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 9A, 5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 12VDC coil, open style

LC1D09JD

Product availability: Stock - Normally stocked in distribution facility

Price*: 119.00 USD

Main

Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load Motor control
Utilisation Category	AC-3 AC-1 AC-4 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
16 Rated Operational Current 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit	
[Uc] Control Circuit Voltage	12 V DC

Complementary

Motor Power Kw

	2.2 KW dt 220200 V / 10 00/00 / 12 (/ 10 0)
	4 kW at 380400 V AC 50/60 Hz (AC-3)
	4 kW at 415440 V AC 50/60 Hz (AC-3)
	5.5 kW at 500 V AC 50/60 Hz (AC-3)
	5.5 kW at 660690 V AC 50/60 Hz (AC-3)
	2.2 kW at 400 V AC 50/60 Hz (AC-4)
	2.2 kW at 220230 V AC 50/60 Hz (AC-3e)
	4 kW at 380400 V AC 50/60 Hz (AC-3e)
	4 kW at 415440 V AC 50/60 Hz (AC-3e)
	5.5 kW at 500 V AC 50/60 Hz (AC-3e)
	5.5 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	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 phase motors
	2 hp at 230/240 V AC 50/60 Hz for 3 phase motors
	5 hp at 460/480 V AC 50/60 Hz for 3 phase motors
	7.5 hp at 575/600 V AC 50/60 Hz for 3 phase motors
	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air	25 A (at 140 °F (60 °C)) for power circuit
Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit

2.2 kW at 220...230 V AC 50/60 Hz (AC-3)

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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	105 A 104 °F (40 °C) - 10 s for power circuit	
Current	210 A 104 °F (40 °C) - 1 s for power circuit	
	30 A 104 °F (40 °C) - 10 min for power circuit	
	61 A 104 °F (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 25 A 50 Hz for power circuit	
Power Dissipation Per Pole	1.56 W AC-1	
	0.2 W AC-3	
	0.2 W AC-3e	
[Ui] Rated Insulation Voltage	Power circuit 690 V IEC 60947-4-1	
	Power circuit 600 V CSA	
	Power circuit 600 V UL	
	Signalling circuit 690 V IEC 60947-1	
	Signalling circuit 600 V CSA	
	Signalling circuit 600 V UL	
Overvoltage Category	III	
Pollution Degree	3	
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947	
Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1	
Mechanical Durability	30 Mcycles	
Electrical Durability	0.6 Mcycles 25 A AC-1 <= 440 V	
	2 Mcycles 9 A AC-3 <= 440 V	
	2 Mcycles 9 A AC-3e <= 440 V	
Control Circuit Type	DC standard	
Coil Technology	Built-in bidirectional peak limiting diode suppressor	
Control Circuit Voltage Limits	0.10.25 Uc -40158 °F (-4070 °C) drop-out DC	
	0.71.25 Uc -40140 °F (-4060 °C) operational DC	
	11.25 Uc 140158 °F (6070 °C) operational DC	
Inrush Power In W	5.4 W 68 °F (20 °C))	
Hold-In Power Consumption In W	5.4 W 68 °F (20 °C)	
Operating Time	63 ±15 % ms closing	
	20 ±20 % ms opening	
Time Constant	28 ms	
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)	

Connections - Terminals	Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end	
	Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:	
	flexible without cable end Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:	
	flexible with cable end Power circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:	
	flexible with cable end Power circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:	
	solid without cable end Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:	
	solid without cable end Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:	
	flexible without cable end	
	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible without cable end	
	Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end	
	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: solid without cable end	
Tightening Torque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm	
riginesiming rorque	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2	
Auxiliary Contact Composition	1 NO + 1 NC	
Auxiliary Contacts Type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1	
Signalling Circuit Frequency	25400 Hz	
Minimum Switching Voltage	17 V for signalling circuit	
Minimum Switching Current	5 mA for signalling circuit	
Insulation Resistance	> 10 MOhm for signalling circuit	
Non-Overlap Time	1.5 ms on de-energisation between NC and NO contact1.5 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	
	IEC 60335-1	
Product Certifications	GL	
	BV DNV	
	LROS (Lloyds register of shipping)	
	RINA UL	
	CCC	
	CSA	
	GOST	
	UKCA	
lp Degree Of Protection	UKCA	

Climatic Withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible Ambient Air Temperature Around The Device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating	
Operating Altitude	09842.52 ft (03000 m)	
Fire Resistance 1562 °F (850 °C) 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	3.03 in (77 mm)	
Width	1.77 in (45 mm)	
Depth	3.74 in (95 mm)	
Net Weight	1.06 lb(US) (0.48 kg)	

Ordering and shipping details

Category	US10I1222355	
Discount Schedule	0112	
Gtin	3389110353204	
Returnability	Yes	
Country Of Origin	SG	

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	2.05 in (5.200 cm)	
Package 1 Width	3.70 in (9.400 cm)	
Package 1 Length	4.49 in (11.400 cm)	
Package 1 Weight	18.62 oz (528.000 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	15	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	18.02 lb(US) (8.173 kg)	
Unit Type Of Package 3	P06	
Number Of Units In Package 3	120	
Package 3 Height	17.72 in (45.000 cm)	
Package 3 Width	23.62 in (60.000 cm)	
Package 3 Length	31.50 in (80.000 cm)	
Package 3 Weight	ckage 3 Weight 161.78 lb(US) (73.384 kg)	

Contractual warranty

Warranty

18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

	Mercury Free	
②	Rohs Exemption Information	Yes
	Pvc Free	

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov