Product data sheet

Specification





IEC contactor, TeSys Deca, nonreversing, 18A, 10HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 12VDC coil, open

LC1D18JD

Product availability: Stock - Normally stocked in distribution facility

Price*: 170.00 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-4 AC-1 AC-3 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] Rated Operational Current	18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	12 V DC

Complementary

Motor Power Kw	4 kW at 220230 V AC 50/60 Hz (AC-3)
	7.5 kW at 380400 V AC 50/60 Hz (AC-3)
	9 kW at 415440 V AC 50/60 Hz (AC-3)
	10 kW at 500 V AC 50/60 Hz (AC-3)
	10 kW at 660690 V AC 50/60 Hz (AC-3)
	4 kW at 400 V AC 50/60 Hz (AC-4)
	4 kW at 220230 V AC 50/60 Hz (AC-3e)
	7.5 kW at 380400 V AC 50/60 Hz (AC-3e)
	9 kW at 415440 V AC 50/60 Hz (AC-3e)
	10 kW at 500 V AC 50/60 Hz (AC-3e)
	10 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	1 hp at 115 V AC 50/60 Hz for 1 phase motors
	3 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	5 hp at 200/208 V AC 50/60 Hz for 3 phase motors
	5 hp at 230/240 V AC 50/60 Hz for 3 phase motors
	10 hp at 460/480 V AC 50/60 Hz for 3 phase motors
	15 hp at 575/600 V AC 50/60 Hz for 3 phase motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit
mermai Gurrent	32 A (at 140 °F (60 °C)) for power circuit

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	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
	300 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	300 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	145 A 104 °F (40 °C) - 10 s for power circuit
Current	240 A 104 °F (40 °C) - 1 s for power circuit
	40 A 104 °F (40 °C) - 10 min for power circuit
	84 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
	50 A gG at <= 690 V coordination type 1 for power circuit
	35 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit
Power Dissipation Per Pole	2.5 W AC-1
	0.8 W AC-3
	0.8 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
	Brod = 20000000 cycles contactor with mechanical load Elvisor 15043-1
Mechanical Durability	30 Mcycles
Electrical Durability	1.65 Mcycles 18 A AC-3 <= 440 V
	1 Mcycles 32 A AC-1 <= 440 V
	1.65 Mcycles 18 A AC-3e <= 440 V
Control Circuit Type	DC standard
Coil Technology	With integral suppression device
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	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
	Power circuit: screw clamp terminals 1 0.000.01 in² (1.56 mm²) - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminals 2 0.000.01 in ² (1.56 mm ²) - cable stiffness: flexible without cable end
	Power circuit: screw clamp terminals 1 0.000.01 in ² (16 mm ²) - cable stiffness: flexible with cable end
	Power circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: flexible with cable end
	Power circuit: screw clamp terminals 1 0.000.01 in² (1.56 mm²) - cable stiffness:
	solid without cable end Power circuit: screw clamp terminals 2 0.000.01 in² (1.56 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 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
	СВ
Ip Degree Of Protection	IP20 front face IEC 60529
Protective Treatment	THIEC 60068-2-30

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	1.08 lb(US) (0.49 kg)

Ordering and shipping details

Category	US10I1222355
Discount Schedule	0112
Gtin	03389110354898
Returnability	No
Country Of Origin	US

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.17 in (5.500 cm)
Package 1 Width	3.74 in (9.500 cm)
Package 1 Length	4.65 in (11.800 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	18.18 lb(US) (8.248 kg)

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



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