Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 220VAC 50Hz coil, open style

LC1D115M5

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 479.00 USD

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-4 AC-1 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 1000 V AC 25400 Hz Power circuit <= 300 V DC
[le] Rated Operational Current	200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 115 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	220 V AC 50 Hz

Complementary

Motor Power Kw	30 kW at 220230 V AC 50/60 Hz (AC-3)	
	55 kW at 380400 V AC 50/60 Hz (AC-3)	
	59 kW at 415440 V AC 50/60 Hz (AC-3)	
	75 kW at 500 V AC 50/60 Hz (AC-3)	
	80 kW at 660690 V AC 50/60 Hz (AC-3)	
	65 kW at 1000 V AC 50/60 Hz (AC-3)	
	18.5 kW at 400 V AC 50/60 Hz (AC-4)	
	30 kW at 220230 V AC 50/60 Hz (AC-3e)	
	55 kW at 380400 V AC 50/60 Hz (AC-3e)	
	59 kW at 415440 V AC 50/60 Hz (AC-3e)	
	75 kW at 500 V AC 50/60 Hz (AC-3e)	
	80 kW at 660690 V AC 50/60 Hz (AC-3e)	
	65 kW at 1000 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	30 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	40 hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	75 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	100 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Protective Cover	With	

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

[Ith] Conventional Free Air Thermal Current	200 A (at 140 °F (60 °C)) for power circuit
Irms Rated Making Capacity	1260 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	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	250 A 104 °F (40 °C) - 10 min for power circuit 550 A 104 °F (40 °C) - 1 min for power circuit 950 A 104 °F (40 °C) - 10 s for power circuit 1100 A 104 °F (40 °C) - 1 s for power circuit 1100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit
Associated Fuse Rating	250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit
Average Impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
Power Dissipation Per Pole	24 W AC-1 7.9 W AC-3 7.9 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Overvoltage Category	III
Overvoltage Category Pollution Degree	3
Pollution Degree [Uimp] Rated Impulse Withstand	3
Pollution Degree [Uimp] Rated Impulse Withstand Voltage	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability Electrical Durability	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V AC 50 Hz
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V AC 50 Hz Without built-in suppressor module 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50 Hz 0.851.1 Uc -40131 °F (-4055 °C) operational AC 50 Hz
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V AC 50 Hz Without built-in suppressor module 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50 Hz 0.851.1 Uc -40131 °F (-4055 °C) operational AC 50 Hz 11.1 Uc 131158 °F (5570 °C) operational AC 50 Hz
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3e <= 440 V AC 50 Hz Without built-in suppressor module 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50 Hz 0.851.1 Uc -40131 °F (-4055 °C) operational AC 50 Hz 11.1 Uc 131158 °F (5570 °C) operational AC 50 Hz 300 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C))
Pollution Degree [Uimp] Rated Impulse Withstand Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In Va Hold-In Power Consumption In Va	3 8 kV IEC 60947 B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1 8 Mcycles 0.8 Mcycles 200 A AC-1 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V 0.95 Mcycles 115 A AC-3 <= 440 V AC 50 Hz Without built-in suppressor module 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50 Hz 0.851.1 Uc -40131 °F (-4055 °C) operational AC 50 Hz 11.1 Uc 131158 °F (5570 °C) operational AC 50 Hz 300 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C))

Connections - Terminals	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 0.000.00 in ² (12.5 mm ²) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible without cable end
	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:
	flexible without cable end Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end
	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness: solid without cable end
	Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: flexible without cable end
	Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: flexible without cable end
	Power circuit: connector 1 $0.020.19$ in 2 (10120 mm 2) - cable stiffness: flexible with cable end
	Power circuit: connector 2 $0.020.08$ in 2 (1050 mm 2) - cable stiffness: flexible with cable end
	Power circuit: connector 1 0.020.19 in² (10120 mm²) - cable stiffness: solid without cable end
	Power circuit: connector 2 0.020.08 in² (1050 mm²) - cable stiffness: solid without cable end
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm
	Control circuit 10.62 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.21 lbf.in (12 N.m) connector hexagonal 0.16 in (4 mm) Control circuit 10.62 lbf.in (1.2 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 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	GOST
	RINA
	DNV
	CSA LROS (Lloyds register of shipping)
	BV
	UL
	GL CCC
	UKCA
	CE
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	perating Altitude 09842.52 ft (03000 m)	
Fire Resistance	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 closed 15 Gn for 11 ms) Shocks contactor open 6 Gn for 11 ms)	
Height	6.22 in (158 mm)	
Width	4.72 in (120 mm)	
Depth	5.35 in (136 mm)	
Net Weight	5.51 lb(US) (2.5 kg)	

Ordering and shipping details

Category	US10I1222359
Discount Schedule	0112
Gtin	3389110377156
Returnability	No
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	6.89 in (17.500 cm)	
Package 1 Width	7.48 in (19.000 cm)	
Package 1 Length	8.27 in (21.000 cm)	
Package 1 Weight	5.34 lb(US) (2.420 kg)	
Unit Type Of Package 2	P06	
Number Of Units In Package 2	27	
Package 2 Height	29.13 in (74.000 cm)	
Package 2 Width	2 Width 23.62 in (60.000 cm)	
Package 2 Length	2 Length 31.50 in (80.000 cm)	
Package 2 Weight	173.25 lb(US) (78.583 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

②	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	Pvc Free	

Certifications & Standards

REACh Declaration
Compliant with Exemptions
China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Product Environmental Profile
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
End of Life Information
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