Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 115A, 75HP at 480VAC, 3 phase, 3 pole, 3 NO, 24VAC 50/60Hz coil, open style

LC1D1156B7

Product availability: Stock - 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	Resistive load Motor control
Utilisation Category	AC-4 AC-3 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	24 V AC 50/60 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
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	8 kV IEC 60947
Safety Reliability Level	B10d = 684932 cycles contactor with nominal load EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical Durability	8 Mcycles
Electrical Durability	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
Control Circuit Type	AC 50/60 Hz
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.30.5 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.15 Uc -40131 °F (-4055 °C) operational AC 50/60 Hz 11.15 Uc 131158 °F (5570 °C) operational AC 50/60 Hz
Inrush Power In Va	280350 VA 60 Hz cos phi 0.8 (at 68 °F (20 °C)) 280350 VA 50 Hz cos phi 0.8 (at 68 °F (20 °C))
Hold-In Power Consumption In Va	218 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 218 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat Dissipation	38 W at 50/60 Hz
Operating Time	620 ms opening 2050 ms closing
Maximum Operating Rate	2400 cyc/h 140 °F (60 °C)
Connections - Terminals	Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm) Power circuit: lugs-ring terminals - external diameter: 0.98 in (25 mm) Power circuit: bars 1 - busbar cross section: 5 x 25 mm
Tightening Torque	Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 106.21 lbf.in (12 N.m) lugs-ring terminals hexagonal 0.51 in (13 mm) M8 Power circuit 106.21 lbf.in (12 N.m) bars hexagonal 0.51 in (13 mm) M8 Control circuit 10.62 lbf.in (1.2 N.m) lugs-ring terminals pozidriv No 2 M3.5

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	GL
	UL
	RINA
	CSA
	LROS (Lloyds register of shipping)
	DNV
	GOST
	CCC
	BV
	UKCA
	CE
	OL .
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	-40140 °F (-4060 °C)
Temperature Around The Device	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 closed 15 Gn for 11 ms)
	Shocks contactor open 6 Gn for 11 ms)
Height	C 20 in (450 mm)
	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	3389110380514

Returnability	Yes
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.40 in (18.8 cm)
Package 1 Width	7.00 in (17.78 cm)
Package 1 Length	8.00 in (20.32 cm)
Package 1 Weight	4.81 lb(US) (2.18 kg)

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance



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