# Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 32A, 20HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 115VAC 50/60Hz coil, open

LC1D32FE7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 206.40 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-1 AC-3 AC-4 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	32 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	115 V AC 50/60 Hz

## Complementary

Motor Power Kw	7.5 kW at 220230 V AC 50/60 Hz (AC-3)			
	15 kW at 380400 V AC 50/60 Hz (AC-3)			
	15 kW at 415440 V AC 50/60 Hz (AC-3)			
	18.5 kW at 500 V AC 50/60 Hz (AC-3)			
	18.5 kW at 660690 V AC 50/60 Hz (AC-3)			
	7.5 kW at 400 V AC 50/60 Hz (AC-4)			
	7.5 kW at 220230 V AC 50/60 Hz (AC-3e)			
	15 kW at 380400 V AC 50/60 Hz (AC-3e)			
	15 kW at 415440 V AC 50/60 Hz (AC-3e)			
	18.5 kW at 500 V AC 50/60 Hz (AC-3e)			
	18.5 kW at 660690 V AC 50/60 Hz (AC-3e)			
Maximum Horse Power Rating	2 hp at 115 V AC 50/60 Hz for 1 phase motors			
	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors			
	10 hp at 200/208 V AC 50/60 Hz for 3 phase motors			
	10 hp at 230/240 V AC 50/60 Hz for 3 phase motors			
	20 hp at 460/480 V AC 50/60 Hz for 3 phase motors			
	25 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	10 A (at 140 °F (60 °C)) for signalling circuit 50 A (at 140 °F (60 °C)) for power 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 60947-5-1 550 A at 440 V for power circuit conforming to IEC 60947				
Rated Breaking Capacity	550 A at 440 V for power circuit conforming to IEC 60947				
[Icw] Rated Short-Time Withstand Current	260 A 104 °F (40 °C) - 10 s for power circuit 430 A 104 °F (40 °C) - 1 s for power circuit 60 A 104 °F (40 °C) - 10 min for power circuit 138 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 63 A gG at <= 690 V coordination type 1 for power circuit 63 A gG at <= 690 V coordination type 2 for power circuit				
Average Impedance	2 mOhm - Ith 50 A 50 Hz for power circuit				
Power Dissipation Per Pole	2 W AC-3 5 W AC-1 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	15 Mcycles				
Electrical Durability	1.65 Mcycles 32 A AC-3 <= 440 V 1.4 Mcycles 50 A AC-1 <= 440 V 1.65 Mcycles 32 A AC-3e <= 440 V				
Control Circuit Type	AC 50/60 Hz standard				
Coil Technology	Without built-in suppressor module				
Control Circuit Voltage Limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz				
Inrush Power In Va	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))				
Hold-In Power Consumption In Va	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))				
Heat Dissipation	23 W at 50/60 Hz				
Operating Time	1222 ms closing 419 ms opening				
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 0.000.02 in² (2.510 mm²) - cable			
	stiffness: flexible without cable end Power circuit: screw clamp terminals 2 0.000.02 in² (2.510 mm²) - cable			
	stiffness: flexible without cable end			
	Power circuit: screw clamp terminals 1 0.000.02 in <sup>2</sup> (110 mm <sup>2</sup> ) - cable stiffness: flexible with cable end			
	Power circuit: screw clamp terminals 2 0.000.01 in² (1.56 mm²) - cable stiffness:			
	flexible with cable end Power circuit: screw clamp terminals 1 0.000.02 in² (1.510 mm²) - cable			
	stiffness: solid without cable end			
	Power circuit: screw clamp terminals 2 0.000.02 in <sup>2</sup> (2.510 mm <sup>2</sup> ) - cable stiffness: solid without cable end			
Tightening Torque	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			
	Power circuit 22.13 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm			
	Power circuit 22.13 lbf.in (2.5 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 22.13 lbf.in (2.5 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	Plate			
	Rail			
Environment				
Standards	CSA C22.2 No 14			
	EN 60947-4-1			
	EN 60947-5-1 IEC 60947-4-1			
	IEC 60947-4-1 IEC 60947-5-1			
	UL 508			
	IEC 60335-1			
Product Certifications	GL			
	BV DNV			
	DNV LROS (Lloyds register of shipping)			
	RINA			
	UL			
	CCC			
	CSA			
	GOST UKCA			
	CB			
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 closed 15 Gn for 11 ms) Shocks contactor open 8 Gn for 11 ms)		
Height	3.35 in (85 mm)		
Width 1.77 in (45 mm)			
Depth	3.62 in (92 mm)		
Net Weight	0.83 lb(US) (0.375 kg)		

# Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
Gtin	3389110350180
Returnability	Yes
Country Of Origin	FR

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.41 in (11.200 cm)
Package 1 Width	3.54 in (9.000 cm)
Package 1 Length	1.97 in (5.000 cm)
Package 1 Weight	14.64 oz (415.000 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	20
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	19.03 lb(US) (8.632 kg)

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

## Well-being performance

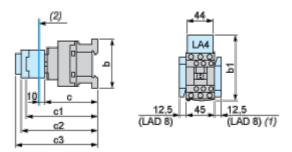
<b>Ø</b>	Reach Free Of Svhc	
<b>⊘</b>	Rohs Exemption Information	Yes
<b>⊘</b>	Pvc Free	

### **Certifications & Standards**

REACh Declaration
Compliant
EU RoHS Declaration
China RoHS declaration
Pro-active China RoHS declaration (out of China RoHS legal scope)
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

## **Dimensions Drawings**

### **Dimensions**

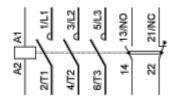


- (1) Including LAD 4BB
- (2) Minimum electrical clearance

LC1		D09D18	D093D123	D099D129
b	without add-on blocks	77	99	80
	with LAD 4BB	94	107	95.5
	with LA4 D●2	110 <sup>(1)</sup>	123 <sup>(1)</sup>	111.5 <sup>(1)</sup>
b1	with LA4 DF, DT	<sub>119</sub> (1)	132 <sup>(1)</sup>	120.5 <sup>(1)</sup>
	with LA4 DW, DL	<sub>126</sub> (1)	139(1)	<sub>127.5</sub> (1)
С	without cover or add-on blocks	84	84	84
	with cover, without add-on blocks	86	86	86
с1	with LAD N or C (2 or 4 contacts)	117	117	117
c2	with LA6 DK10, LAD 6K10	129	129	129
<b>c</b> 3	with LAD T, R, S	137	137	137
	with LAD T, R, S and sealing cover	141	141	141
(1)	Including LAD 4BB.			

Connections and Schema

Wiring



Jun 21, 2024