Product data sheet

Specifications





IEC contactor, TeSys Deca, nonreversing, 9A, 5HP at 480VAC, 3 phase, 3 pole, 3 NO, 110VAC 50/60Hz coil, open style

LC1D093F7

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

Price*: 112.80 USD

Main

Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-4 AC-3 AC-1 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	9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 20 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-3e for power circuit
[Uc] Control Circuit Voltage	110 V AC 50/60 Hz

Complementary

Motor Power Kw	2.2 kW at 220230 V AC 50/60 Hz (AC-3)		
	4 kW at 380400 V AC 50/60 Hz (AC-3)		
	4 kW at 415 V AC 50/60 Hz (AC-3)		
	4 kW at 440 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 220230 V AC 50/60 Hz (AC-3e)		
	4 kW at 380400 V AC 50/60 Hz (AC-3e)		
	4 kW at 415 V AC 50/60 Hz (AC-3e)		
	4 kW at 440 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)		
	2.2 kW at 400 V AC 50/60 Hz (AC-4)		
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		
	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	· ·		
Compatibility Code Pole Contact Composition	0.33 hp at 115 V AC 50/60 Hz for 1 phase motors		

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 16 A (at 140 °F (60 °C)) for power circuit	
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 Current	nd 105 A 104 °F (40 °C) - 10 s for power circuit 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 16 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	15 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	AC 50/60 Hz	
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	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	Power circuit: spring terminals 1 0.00 in² (2.5 mm²) - cable stiffness: flexible without cable end Power circuit: spring terminals 2 0.00 in² (2.5 mm²) - cable stiffness: flexible without cable end Control circuit: spring terminals 1 0.00 in² (2.5 mm²) - cable stiffness: flexible without cable end Control circuit: spring terminals 2 0.00 in² (2.5 mm²) - cable stiffness: flexible without cable end	

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
	IEC 60335-1
	IEC 00333-1
Product Certifications	BV
	CCC
	UL
	CSA
	GOST
	RINA
	LROS (Lloyds register of shipping)
	DNV
	GL
	UKCA
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
·	140130 1 (0070 G) with defating
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)
	Chocks contactor closed to Childriffins)
Height	3.15 in (80 mm)
Width	1.77 in (45 mm)
Depth	3.39 in (86 mm)
Net Weight	0.71 lb(US) (0.32 kg)
··	5.1 1 15(55) (5.5E 18)

Ordering and shipping details

Category	US10I1222354
Discount Schedule	0112
Gtin	3389110802252

Returnability	No	
Country Of Origin	ID	

Packing Units

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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	4.33 in (11.000 cm)
Package 1 Length	4.80 in (12.200 cm)
Package 1 Weight	13.40 oz (380.000 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	13.70 lb(US) (6.212 kg)

Contractual warranty

Warranty 18 months

Apr 25, 2024



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
②	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant EU RoHS Declaration	
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.	
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	