Product data sheet

Specification





IEC contactor, TeSys Deca, nonreversing, 12A, 7.5HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 480VAC 50/60Hz coil, open

LC1D12T7

Product availability: Stock - Normally stocked in distribution facility

Price*: 142.80 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-3 AC-4 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	25 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 12 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 12 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	480 V AC 50/60 Hz

Complementary

Motor power kW	3 kW at 220230 V AC 50/60 Hz (AC-3)	
	5.5 kW at 380400 V AC 50/60 Hz (AC-3)	
	5.5 kW at 415440 V AC 50/60 Hz (AC-3) 7.5 kW at 500 V AC 50/60 Hz (AC-3)	
		7.5 kW at 660690 V AC 50/60 Hz (AC-3)
	3.7 kW at 400 V AC 50/60 Hz (AC-4) 3 kW at 220230 V AC 50/60 Hz (AC-3e) 5.5 kW at 380400 V AC 50/60 Hz (AC-3e)	
7.5 kW at 500 V AC 50/60 Hz (AC-3e)		
7.5 kW at 660690 V AC 50/60 Hz (AC-3e)		
Maximum Horse Power Rating	0.5 hp at 115 V AC 50/60 Hz for 1 phase motors	
	2 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	3 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	3 hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	7.5 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	10 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	25 A (at 140.0000000000 °F (60 °C)) for power circuit 10 A (at 140.0000000000 °F (60 °C)) for signalling 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	105 A 104.0000000000 °F (40 °C) - 10 s for power circuit 210 A 104.0000000000 °F (40 °C) - 1 s for power circuit 30 A 104.0000000000 °F (40 °C) - 10 min for power circuit 61 A 104.0000000000 °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 40 A gG at <= 690 V coordination type 1 for power circuit 25 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power dissipation per pole	0.36 W AC-3 1.56 W AC-1 0.36 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	2 Mcycles 12 A AC-3 <= 440 V 0.8 Mcycles 25 A AC-1 <= 440 V 2 Mcycles 12 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 -40.0000000000158.0000000000 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40.0000000000140.0000000000 °F (-4060 °C) operational AC 50 Hz 0.851.1 Uc -40.0000000000140.0000000000 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140.00000000000158.0000000000 °F (6070 °C) operational AC 50/60 Hz
Inrush power in VA	70 VA 60 Hz cos phi 0.75 (at 68.0000000000 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68.0000000000 °F (20 °C))
Hold-in power consumption in VA	7.5 VA 60 Hz cos phi 0.3 (at 68.0000000000 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68.0000000000 °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 140.0000000000 °F (60 °C)
Maximum operating rate	3600 cyc/h at 60 °C

Power circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness:
flexible without cable end
Power circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: flexible without cable end
Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness:
flexible with cable end Power circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable stiffness: flexible with cable end
Power circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable stiffness:
solid without cable end
Power circuit: screw clamp terminals 2 0.0020.006 in ² (14 mm ²) - cable stiffness: solid without cable end
Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable
stiffness: flexible without cable end Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable
stiffness: flexible without cable end
Control circuit: screw clamp terminals 1 0.0020.006 in ² (14 mm ²) - cable stiffness: flexible with cable end
Control circuit: screw clamp terminals 2 0.0020.004 in² (12.5 mm²) - cable
stiffness: flexible with cable end Control circuit: screw clamp terminals 1 0.0020.006 in² (14 mm²) - cable
stiffness: solid without cable end
Control circuit: screw clamp terminals 2 0.0020.006 in² (14 mm²) - cable stiffness: solid without cable end
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
1 NO + 1 NC
Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
25400 Hz
17 V for signalling circuit
5 mA for signalling circuit
> 10 MOhm for signalling circuit
1.5 ms on de-energisation between NC and NO contact1.5 ms on energisation between NC and NO contact
Plate Rail
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 60947-4-1
IEC 60335-1:Clause 30.2
IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ
CSA C22.2 No 60947-4-1
UL
CCC
CSA Marine
UKCA
EAC CB Scheme
CD Scriette
ID20 front force IFO 00520
IP20 front face IEC 60529
IP20 front face IEC 60529 THIEC 60068-2-30 IACS E10 exposure to damp heat

Permissible ambient air temperature around the device	-40.000000000140.0000000000 °F (-4060 °C) 140.0000000000158.0000000000 °F (6070 °C) with derating
Operating altitude	09842.52 ft (03000 m)
Fire resistance	1562.0000000000 °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	1.8 in (45 mm)
Depth	3.4 in (86 mm)
Net Weight	0.717 lb(US) (0.325 kg)

Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
GTIN	3389110349238
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.3 in (11.0 cm)
Package 1 Width	3.5 in (9.0 cm)
Package 1 Length	1.9 in (4.9 cm)
Package 1 Weight	12.5 oz (353.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	20
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	16.568 lb(US) (7.515 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	320
Package 3 Height	30.3 in (77.0 cm)
Package 3 Width	31.5 in (80.0 cm)
Package 3 Length	23.6 in (60.0 cm)
Package 3 Weight	264.8 lb(US) (120.1 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 >







Sustainable Packaging Transparency RoHS/REACh

Resource performance



Sustainable Packaging

Well-being performance

Toxic Heavy Metal Free

Mercury Free

Rohs Exemption Information Yes

Pvc Free

Certifications & Standards

Reach Regulation

Eu Rohs Directive

Compliant

EU RoHS Declaration

China Rohs Regulation

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

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