Product data sheet

Specification





IEC contactor, TeSys Deca, nonreversing, 50A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 480VAC 50/60Hz coil, open

LC1D50AT7

Product availability: Stock - Normally stocked in distribution facility

Price*: 295.20 USD

Main

Range	TeSys TeSys Deca
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-1 AC-3 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	50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 50 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] Control Circuit Voltage	480 V AC 60 Hz

Complementary

Motor Power Kw	15 kW at 220230 V AC 50/60 Hz (AC-3)	
	22 kW at 380400 V AC 50/60 Hz (AC-3)	
	30 kW at 500 V AC 50/60 Hz (AC-3)	
	33 kW at 660690 V AC 50/60 Hz (AC-3)	
	25 kW at 415 V AC 50/60 Hz (AC-3)	
	30 kW at 440 V AC 50/60 Hz (AC-3)	
	11 kW at 400 V AC 50/60 Hz (AC-4)	
	15 kW at 220230 V AC 50/60 Hz (AC-3e)	
	22 kW at 380400 V AC 50/60 Hz (AC-3e)	
	30 kW at 500 V AC 50/60 Hz (AC-3e)	
	33 kW at 660690 V AC 50/60 Hz (AC-3e)	
	25 kW at 415 V AC 50/60 Hz (AC-3e)	
	30 kW at 440 V AC 50/60 Hz (AC-3e)	
Maximum Horse Power Rating	3 hp at 115 V AC 50/60 Hz for 1 phase motors	
	7.5 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	15 hp at 200/208 V AC 50/60 Hz for 3 phase motors	
	15 hp at 230/240 V AC 50/60 Hz for 3 phase motors	
	40 hp at 460/480 V AC 50/60 Hz for 3 phase motors	
	40 hp at 575/600 V AC 50/60 Hz for 3 phase motors	
Compatibility Code	LC1D	

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

Pole Contact Composition	3 NO	
Protective Cover	With	
[Ith] Conventional Free Air Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit 80 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 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947	
Rated Breaking Capacity	900 A at 440 V for power circuit conforming to IEC 60947	
[Icw] Rated Short-Time Withstand Current	tand 400 A 104 °F (40 °C) - 10 s for power circuit 810 A 104 °F (40 °C) - 1 s for power circuit 84 A 104 °F (40 °C) - 10 min for power circuit 208 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 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit	
Average Impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit	
Power Dissipation Per Pole	3.7 W AC-3 9.6 W AC-1 3.7 W AC-3e	
[Ui] Rated Insulation Voltage	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 Power circuit 690 V IEC 60947-4-1	
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	6 Mcycles	
Electrical Durability	1.45 Mcycles 50 A AC-3 <= 440 V 1.1 Mcycles 80 A AC-1 <= 440 V 1.45 Mcycles 50 A AC-3e <= 440 V	
Control Circuit Type	AC 60 Hz	
Coil Technology	Without built-in suppressor module	
Control Circuit Voltage Limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 60 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 60 Hz	
Inrush Power In Va	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))	
Hold-In Power Consumption In Va	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))	
Heat Dissipation	45 W at 60 Hz	
Operating Time	419 ms opening 1226 ms closing	
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)	

Connections - Terminals	Control circuit: screw clamp terminals 2 0.000.00 in ² (12.5 mm ²) - cable stiffness: flexible with cable end	
	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 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: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable	
	stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable	
	stiffness: flexible without cable end Power circuit: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable	
	stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable stiffness: flexible with cable end	
	Power circuit: EverLink BTR screw connectors 1 0.000.05 in² (135 mm²) - cable stiffness: solid without cable end	
	Power circuit: EverLink BTR screw connectors 2 0.000.04 in² (125 mm²) - cable	
	stiffness: solid without cable end	
Tightening Torque	Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors Philips No 2	
	Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ²	
	(2535 mm²) hexagonal 0.16 in (4 mm) Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in² (1	
	25 mm²) hexagonal 0.16 in (4 mm) Control circuit 15.05 lbf.in (1.7 N.m) EverLink BTR screw connectors pozidriv No 2	
	Power circuit 22.13 lbf.in (2.5 N.m) EverLink BTR screw connectors 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	
Farring name and		
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	
Product Certifications	DNV	
	GL	
	UL BV	
	CCC	
	RINA	
	GOST	
	LROS (Lloyds register of shipping) CSA	
lp Degree Of Protection	IP20 front face IEC 60529	
Protective Treatment		
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 10 Gn for 11 ms)
Height	4.80 in (122 mm)
Width	2.17 in (55 mm)
Depth	4.72 in (120 mm)
Net Weight 1.88 lb(US) (0.855 kg)	

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0112
Gtin	3389119408769
Returnability	Yes
Country Of Origin	FR

Packing Units

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	2.44 in (6.2 cm)	
Package 1 Width	5.39 in (13.7 cm)	
Package 1 Length	5.98 in (15.2 cm)	
Package 1 Weight	33.23 oz (942.0 g)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	10	
Package 2 Height	5.91 in (15.0 cm)	
Package 2 Width	11.81 in (30.0 cm)	
Package 2 Length	15.75 in (40.0 cm)	
Package 2 Weight	21.77 lb(US) (9.875 kg)	
Unit Type Of Package 3	P06	
Number Of Units In Package 3	160	
Package 3 Height	30.31 in (77.0 cm)	
Package 3 Width	31.50 in (80.0 cm)	
Package 3 Length	23.62 in (60.0 cm)	
Package 3 Weight	368.13 lb(US) (166.98 kg)	

Contractual warranty

Warranty

Apr 28, 2024

18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

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