Product datasheet

Specifications





Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 50A, 110V AC 50/60Hz coil, screw clamp terminals

LC1D50AF7

Main

mann		
Range	TeSys TeSys Deca	
Range Of Produc	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Motor control Resistive load	
Utilisation Category	AC-4 AC-1 AC-3 AC-3e	
Poles Description	ЗР	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] Rated Operational Current	50 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 50 A (at <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	15 kW at 220230 ∨ 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)	
Motor Power Hp	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 phases motors	
	15 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	40 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	40 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Contact Compatibility	M2	
Protective Cover	With	

[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 80 A (at 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	400 A 40 °C - 10 s for power circuit 810 A 40 °C - 1 s for power circuit 84 A 40 °C - 10 min for power circuit 208 A 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 certified Power circuit: 600 V UL certified Signalling circuit: 600 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1
Overvoltage Category	Ш
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
Safety Reliability Level	B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical Durability	6 Mcycles
Electrical Durability	1.45 Mcycles 50 A AC-3 at Ue <= 440 V 1.1 Mcycles 80 A AC-1 at Ue <= 440 V 1.45 Mcycles 50 A AC-3e at Ue <= 440 V
Control Circuit Type	AC at 50/60 Hz standard
Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 Hz
Inrush Power In Va	140 VA 60 Hz cos phi 0.75 (at 20 °C) 160 VA 50 Hz cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	45 W at 50/60 Hz
Operating Time	419 ms opening 1226 ms closing
Maximum Operating Rate	3600 cyc/h 60 °C

Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 2 14 mm ³ - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm ³ - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ³ - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm ³ - cable stiffness: solid without cable end Power circuit: screw clamp terminals 2 14 mm ³ - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm ³ - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm ³ - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm ³ - cable stiffness: flexible without cable end Power circuit: screw connection 2 125 mm ³ - cable stiffness: flexible without cable end Power circuit: screw connection 2 125 mm ³ - cable stiffness: solid without cable end Power circuit: screw connector 2 125 mm ³ - cable stiffness: solid without cable end Tightening Torque Control circuit: 1.7 N m - on EverLink BTR screw connectors - with screwdriver flexible No 2 Power circuit: screw connectors 2 - uzble stiffness: solid without cable end Power circuit: Screw connectors 2 - uzble stiffness: solid without cable end Tightening Torque Control circuit: 1.7 N m - on EverLink BTR screw connectors - with screwdrive	Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end
Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm² - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm² - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm² - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm² - cable stiffness: flexible without cable end Power circuit: screw connection 1 135 mm² - cable stiffness: solid without cable end Power circuit: screw connection 2 125 mm² - cable stiffness: solid without cable end Power circuit: screw connection 2 125 mm² - cable stiffness: solid without cable end Power circuit: screw connection 2 125 mm² - cable stiffness: solid without cable end Tightening Torque Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 125 mm² hexagonal screw head 4 mm Power circuit: 8 N.m - on EverLink BTR screw connectors - with screwdriver		Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without
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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	Auxiliary Contacts Type	
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	Signalling Circuit Frequency	25400 Hz
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	Minimum Switching Voltage	17 V 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	Minimum Switching Current	5 mA for signalling circuit
1.5 ms on energisation between NC and NO contact Mounting Support Rail	Insulation Resistance	> 10 MOhm for signalling circuit
	Non-Overlap Time	
	Mounting Support	
	Louronmont	

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	CCC GOST UL LROS (Lloyds register of shipping) CSA DNV BV GL RINA
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30

Climatic Withstand	conforming to IACS E10 exposure to damp heat conforming to IEC 60947-1 Annex Q category D exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-4060 °C 6070 °C with derating
Operating Altitude	03000 m
Fire Resistance	850 °C conforming to 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	122 mm
Width	55 mm
Depth	120 mm
Net Weight	0.855 kg
Packing Units	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.200 cm
Package 1 Width	13.500 cm
Package 1 Length	15.300 cm
Package 1 Weight	925.000 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	10
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	9.785 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	160
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	164.560 kg

Contractual warranty

Warranty

18 months

Sustainability Seren

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

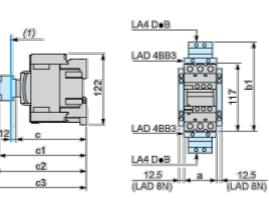
Pvc Free

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	

Product datasheet

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D40AD65A	
а		55	
	with LA4 D●2	-	
	with LA4 DB3 or LAD 4BB3	136	
b1	with LA4 DF, DT	157	
	with LA4 DM, DW, DL	166	
	without cover or add-on blocks	118	
c	with cover, without add-on blocks	120	
	with LAD N (1 contact)	-	
c1	with LAD N or C (2 or 4 contacts)	150	
c2	with LA6 DK10, LAD 6DK	163	
c3	with LAD T, R, S	171	
C3	with LAD T, R, S and sealing cover	175	
			1

Product datasheet

LC1D50AF7

Connections and Schema

Wiring

