

Contactor, TeSys Deca, 3P(3 NO), AC-3/AC-3e, <=400V, 50A, 120V AC 60Hz coil, lugs-ring terminals

LC1D50A6G7

Discontinued on: Nov 1, 2023

(!) Discontinued

Main

Range	TeSys
	,
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 <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	120 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)
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
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: 690 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	III			
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 60 Hz			
Coil Technology	Without built-in suppressor module			
Control Circuit Voltage Limits	0.30.6 Uc (-4070 °C):drop-out AC 60 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 60 Hz			
Inrush Power In Va	140 VA 60 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)			
Heat Dissipation	45 W at 60 Hz			
Operating Time	419 ms opening 1226 ms closing			
Maximum Operating Rate	3600 cyc/h 60 °C			
Connections - Terminals	Control circuit: lugs-ring terminals - external diameter: 8 mm Power circuit: lugs-ring terminals - external diameter: 16.5 mm			
Tightening Torque	Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver Philips No 2 M3.5 Power circuit: 6 N.m - on lugs-ring terminals hexagonal screw head 10 mm M6 Control circuit: 1.7 N.m - on lugs-ring terminals - with screwdriver pozidriv No 2 M3.5			
Auxiliary Contact Composition	1 NO + 1 NC			

Auxiliary Contacts Type	type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to 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	

Standards	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
	OL 506
Product Certifications	BV
	UL
	RINA
	CSA
	CCC
	DNV
	LROS (Lloyds register of shipping)
	GL
	GOST
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	-4060 °C
Temperature Around The Device	
remperature Around The Device	6070 °C with derating
Operating Altitude	03000 m
Fire Resistance	850 °C conforming to IEC 60695-2-1
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

Environmental

Flame Retardance V1 conforming to UL 94

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	6.0 cm
Package 1 Width	14.0 cm

Package 1 Length	15.0 cm
Package 1 Weight	850.0 g

Contractual warranty

Warranty 18 months

Sustainability

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		
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		