Product datasheet

Specifications





Contactor, TeSys Deca, 3P(3NO),AC-3/AC-3e 440V 40A, 120V AC coil, lugs-ring terminals

LC1D406G7

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-2 AC-1 AC-4 AC-3 AC-3e	
poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] rated operational current	60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	120 V AC 50/60 Hz	

Complementary

Motor power kW	18.5 kW at 380400 V AC 50/60 Hz 22 kW at 500 V AC 50/60 Hz 30 kW at 660690 V AC 50/60 Hz 11 kW at 220230 V AC 50/60 Hz 22 kW at 1000 V AC 50/60 Hz 22 kW at 415 V AC 50/60 Hz 22 kW at 440 V AC 50/60 Hz
Motor power hp	10 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to CSA 10 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to UL 10 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to CSA 10 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to UL 3 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA 3 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL 30 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to CSA 30 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to UL 30 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to CSA 30 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to UL 5 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA 5 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal current	10 A (at 60 °C) for control circuit 60 A (at 60 °C) for power circuit

10 Oct 2024 Life Is On Schneider

Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1
	800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 80 A gG at <= 690 V coordination type 1 for power circuit 80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3 2.4 W AC-3e
[Ui] rated insulation voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 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	6000000 cycles
Control circuit type	AC at 50/60 Hz
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.30.6 Uc (60 °C):drop-out AC 50/60 Hz 0.81.1 Uc (60 °C):operational AC 50 Hz 0.851.1 Uc (60 °C):operational AC 60 Hz
Inrush power in VA	140 VA cos phi 0.75 (at 20 °C) 160 VA 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 for control circuit
Operating time	1226 ms closing 419 ms opening
Maximum operating rate	3600 cyc/h 60 °C
Connections - terminals	Control circuit: ring lugs 1 - external diameter: 8 mm Power circuit: ring lugs 1 - external diameter: 16.5 mm
Tightening torque	Control circuit: 1.7 N.m - on ring lugs - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.7 N.m - on ring lugs - with screwdriver Philips No 2 M3.5 Power circuit: 2.5 N.m - on ring lugs - with screwdriver flat Ø 8 mm M5 Power circuit: 2.5 N.m - on ring lugs - with screwdriver Philips No 2 M5 Control circuit: 1.7 N.m - on ring lugs - with screwdriver pozidriv No 2 Power circuit: 2.5 N.m - on ring lugs - with screwdriver pozidriv No 2
Auxiliary contact composition	1 NO + 1 NC
Auxiliary contacts type	type mirror contact 1 NC conforming to IEC 60947-4-1 type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
Minimum switching voltage	17 V for control circuit
Minimum switching current	5 mA for control circuit
Insulation resistance	> 10 MOhm for control circuit
Non-overlap time	1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts

Environment

	EN 60947-4-1
! !	IEC 60947-4-1 UL 508 EN 60947-5-1 CSA C22.2 No 14 IEC 60947-5-1
() () () ()	CCC GOST CSA UL LROS (Lloyds register of shipping) GL DNV RINA BV UKCA
	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Climatic withstand	conforming to IACS E10 exposure to damp heat
	-560 °C -4070 °C at Uc
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
9	Shocks contactor opened (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz)
Height	127 mm
Width	75 mm
Depth	119 mm
net weight	1.4 kg

Packing Units

_	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.0 cm
Package 1 Width	13.0 cm
Package 1 Length	9.0 cm
Package 1 Weight	1.4 kg

Contractual warranty

Warranty 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

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

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	No need of specific recycling operations

10 Oct 2024

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

