

Contactor, TeSys Deca Advanced, 3P(3NO), AC-3/3e, <=440V, 9A, 48...130V AC/DC coil, screw clamp terminals

LC1D09EHE

Main

Range of product	TeSys Deca Advanced	
Product or component type	Contactor	
Device short name	LC1D	
Contactor application	Resistive load Motor control	
Utilisation category	AC-3 AC-1 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] rated operational current	9 A (at <60 °C) at <= 440 V AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC-1 for power circuit 9 A (at <60 °C) at <= 440 V AC-3e for power circuit	
[Uc] control circuit voltage	48130 V AC 50/60 Hz 48130 V DC	

Complementary

J	
Motor power kW	2.2 kW at 220230 V AC 50 Hz (AC-3)
	4 kW at 380400 V AC 50 Hz (AC-3)
	4 kW at 415 V AC 50 Hz (AC-3)
	4 kW at 440 V AC 50 Hz (AC-3)
	5.5 kW at 500 V AC 50 Hz (AC-3)
	5.5 kW at 660690 V AC 50 Hz (AC-3)
	2.2 kW at 220230 V AC 50 Hz (AC-3e)
	4 kW at 380400 V AC 50 Hz (AC-3e)
	4 kW at 415 V AC 50 Hz (AC-3e)
	4 kW at 440 V AC 50 Hz (AC-3e)
	5.5 kW at 500 V AC 50 Hz (AC-3e)
	5.5 kW at 660690 V AC 50 Hz (AC-3e)
Motor power hp	0.33 hp at 115 V AC 60 Hz for 1 phase motors
	1 hp at 230/240 V AC 60 Hz for 1 phase motors
	2 hp at 200/208 V AC 60 Hz for 3 phases motors
	2 hp at 230/240 V AC 60 Hz for 3 phases motors
	5 hp at 460/480 V AC 60 Hz for 3 phases motors
	7.5 hp at 575/600 V AC 60 Hz for 3 phases motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With
[Ith] conventional free air thermal	10 A (at 60 °C) for signalling circuit
current	25 A (at 60 °C) for power 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	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit	
Associated fuse rating	10 A gG for signalling circuit conforming to IEC 60947-5-1 25 A gG at <= 690 V coordination type 1 for power circuit 20 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	1.56 W AC-1 0.2 W AC-3 0.2 W AC-3e	
[Ui] rated insulation voltage	Power circuit: 690 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1	
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	15 Mcycles	
Electrical durability	2.4 Mcycles 8 A AC-3 at Ue <= 440 V 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2.4 Mcycles 8 A AC-3e at Ue <= 440 V	
Control circuit type	AC/DC at 50/60 Hz AC/DC electronic	
Coil technology	Built-in bidirectional peak limiting	
Control circuit voltage limits	<= 0.1 Uc (-4070 °C):drop-out AC/DC 0.851.1 Uc (-4060 °C):operational AC/DC 11.1 Uc (6070 °C):operational AC/DC	
Inrush power in VA	25 VA 50/60 Hz (at 20 °C)	
Inrush power in W	24 W (at 20 °C)	
Hold-in power consumption in VA	1.3 VA 50/60 Hz (at 20 °C)	
Hold-in power consumption in W	0.8 W at 20 °C	
Heat dissipation	0.8 W at 50/60 Hz	
Operating time	4555 ms closing 2090 ms opening	
Maximum operating rate	3600 cyc/h at 60 °C	
Connections - terminals	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without 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: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 12 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 12 mm² - cable stiffness: solid	

Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 m Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mr Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No	
	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2	
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	Plate Rail	
Environment		
Standards	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1	
Product certifications	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA	
IP degree of protection	IP20 front face conforming to IEC 60529	
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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)	
Height	77 mm	
Width	45 mm	
Depth	86 mm	
Net weight	0.368 kg	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.200 cm

Package 1 Width	9.300 cm
Package 1 Length	11.400 cm
Package 1 Weight	392.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	15
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	6.211 kg

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

∅ Environmental footprint		
Total lifecycle Carbon footprint	9	

Use Better

⊗ Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Compliant with Exemptions
SCIP Number	7d699774-c34b-4bf4-9ecb-388a149eefdd
REACh Regulation	REACh Declaration
Halogen-free status	Halogen free plastic parts & cables product

Use Again

○ Repack and remanufacture		
End of life manual availability	End of Life Information	
Take-back	No	
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	

Product data sheet

LC1D09EHE

Image of product / Alternate images

Alternative







LC1D09EHE

Technical Illustration

Assembly's dimensions



