

Product datasheet

Specifications



Contactor, TeSys Deca, 3P(3NO), AC-3, <=440V, 115A, 220V AC 50Hz coil, screw clamp terminals

LC1D115006M5

 **Discontinued on:** Dec 12, 2019 AD

 **Discontinued**

Main

Range	TeSys
Range of product	TeSys Deca
Product or component type	Contactor
Device short name	LC1D
Contactor application	Motor control Resistive load
Utilisation category	AC-3 AC-1
Poles description	3P
[Ue] rated operational voltage	Power circuit: 1000 V AC 25...400 Hz
[Ie] rated operational current	200 A (at <60 °C) at 440 V AC AC-1 for power circuit 115 A (at <60 °C) at 440 V AC AC-3 for power circuit
[Uc] control circuit voltage	220 V AC 50 Hz

Complementary

Motor power kW	55 kW at 380...400 V AC 50/60 Hz 75 kW at 1000 V AC 50/60 Hz 75 kW at 500 V AC 50/60 Hz 80 kW at 660...690 V AC 50/60 Hz 59 kW at 415...440 V AC 50/60 Hz 30 kW at 220...230 V AC 50/60 Hz
Motor power hp	100 hp at 575/600 V AC 50/60 Hz for 3 phases motors conforming to CSA 100 hp at 575/600 V AC 50/60 Hz for 3 phases motors conforming to UL 30 hp at 200/208 V AC 50/60 Hz for 3 phases motors conforming to CSA 40 hp at 230/240 V AC 50/60 Hz for 3 phases motors conforming to CSA 40 hp at 230/240 V AC 50/60 Hz for 3 phases motors conforming to UL 75 hp at 460/480 V AC 50/60 Hz for 3 phases motors conforming to CSA 75 hp at 460/480 V AC 50/60 Hz for 3 phases motors conforming to UL 30 hp at 200/208 V AC 50/60 Hz for 3 phases 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 200 A (at 60 °C) for power circuit
Irms rated making capacity	1260 A at 440 V AC for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1
Rated breaking capacity	1100 kA at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 200 A at 690 V coordination type 2 for power circuit 250 A at 690 V coordination type 1 for power circuit

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Average impedance	0.6 mOhm - lth 200 A 50 Hz for power circuit
Power dissipation per pole	24 W AC-1 7.9 W AC-3
[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 60947-4-1 Power circuit: 1000 V conforming to IEC 60947-4-1
Overvoltage category	III
[Uimp] rated impulse withstand voltage	8 kV conforming to IEC 60947
Safety reliability level	B10d = 684932 cycles contactor with nominal load conforming to EN/ISO 13849-1 B10d = 10000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical durability	80000000 cycles
Control circuit type	AC at 50 Hz
Coil technology	Without built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.85...1.1 Uc (55 °C):operational AC 50 Hz 0.3...0.5 Uc (55 °C):drop-out AC 50/60 Hz
Inrush power in VA	280...350 VA cos phi 0.8 (at 20 °C)
Hold-in power consumption in VA	22 VA 60 Hz cos phi 0.3 (at 20 °C)
Heat dissipation	3...8 W at 50/60 Hz for control circuit
Operating time	40...75 ms opening 20...50 ms closing
Connections - terminals	Control circuit: ring lugs - external diameter: 8 mm Power circuit: ring lugs - external diameter: 25 mm
Tightening torque	Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm M3.5 Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver Philips No 2 M3.5 Power circuit: 12 N.m - on screw clamp terminal hexagonal screw head M8
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
Mounting support	Rail Plate

Environment

Standards	CSA C22.2 No 14 EN/IEC 60947-5-1 UL 508 EN/IEC 60947-4-1
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Product certifications	RINA UL CCC CSA DNV BV GL LROS (Lloyds register of shipping)
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106
Protective treatment	TH (pollution degree 3) 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	-5...60 °C -40...70 °C at U _c
Operating altitude	3000 m without derating
Fire resistance	850 °C conforming to IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Shocks contactor closed (15 Gn for 11 ms) Shocks contactor opened (6 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5...300 Hz) Vibrations contactor closed (4 Gn, 5...300 Hz)
Height	158 mm
Width	120 mm
Depth	132 mm
Product weight	2.5 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	19 cm
Package 1 Width	17 cm
Package 1 Length	21 cm
Package 1 Weight	2.13 kg

Contractual warranty

Warranty (in months)	18
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Environmental Data

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](#) >

Use Longer

Lifetime extension	
Repair	No

Use Again

Repack and remanufacture	
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins