

Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 115A, 220V AC 50/60Hz coil, screw clamp terminals

LC1D115M7

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-4 AC-1 AC-3 AC-3e	
Poles Description	3P	
[Ue] Rated Operational Voltage	Power circuit: <= 1000 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] 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 115 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] Control Circuit Voltage	220 V AC 50/60 Hz	

Complementary

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Motor Power Kw	30 kW at 220230 V AC 50/60 Hz (AC-3)	
	55 kW at 380400 V AC 50/60 Hz (AC-3)	
	59 kW at 415440 V AC 50/60 Hz (AC-3)	
	75 kW at 500 V AC 50/60 Hz (AC-3)	
	80 kW at 660690 V AC 50/60 Hz (AC-3)	
	65 kW at 1000 V AC 50/60 Hz (AC-3)	
	18.5 kW at 400 V AC 50/60 Hz (AC-4)	
	30 kW at 220230 V AC 50/60 Hz (AC-3e)	
	55 kW at 380400 V AC 50/60 Hz (AC-3e)	
	59 kW at 415440 V AC 50/60 Hz (AC-3e)	
	75 kW at 500 V AC 50/60 Hz (AC-3e)	
	80 kW at 660690 V AC 50/60 Hz (AC-3e)	
	65 kW at 1000 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	30 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	40 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	75 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	100 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	200 A (at 60 °C) for power circuit	
Irms Rated Making Capacity	1260 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	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	250 A 40 °C - 10 min for power circuit 550 A 40 °C - 1 min for power circuit 950 A 40 °C - 10 s for power circuit 1100 A 40 °C - 1 s 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	250 A gG at <= 690 V coordination type 1 for power circuit 200 A gG at <= 690 V coordination type 2 for power circuit 10 A gG for signalling circuit
Average Impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
Power Dissipation Per Pole	24 W AC-1 7.9 W AC-3 7.9 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
Overvoltage Category	III
Pollution Degree	3
[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	8 Mcycles
Electrical Durability	0.8 Mcycles 200 A AC-1 at Ue <= 440 V 0.95 Mcycles 115 A AC-3 at Ue <= 440 V 0.95 Mcycles 115 A AC-3e at Ue <= 440 V
Control Circuit Type	AC at 50/60 Hz standard
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.30.5 Uc (-4070 °C):drop-out AC 50/60 Hz 0.81.15 Uc (-4055 °C):operational AC 50/60 Hz 11.15 Uc (5570 °C):operational AC 50/60 Hz
Inrush Power In Va	280350 VA 60 Hz cos phi 0.8 (at 20 °C) 280350 VA 50 Hz cos phi 0.8 (at 20 °C)
Hold-In Power Consumption In Va	218 VA 60 Hz cos phi 0.3 (at 20 °C) 218 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	38 W at 50/60 Hz
Operating Time	620 ms opening 2050 ms closing
Maximum Operating Rate	2400 cyc/h 60 °C

Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: flexible without	
	cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible without	
	cable end Control circuit: screw clamp terminals 1 12.5 mm² - cable stiffness: solid without	
	cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: solid without	
	cable end Power circuit: connector 1 10120 mm² - cable stiffness: flexible without cable end	
	Power circuit: connector 2 1050 mm² - cable stiffness: flexible without cable end	
	Power circuit: connector 1 10120 mm² - cable stiffness: flexible with cable end	
	Power circuit: connector 2 1050 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 10120 mm² - cable stiffness: solid without cable end	
	Power circuit: connector 2 1050 mm² - cable stiffness: solid without cable end	
Fightening Torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm	
	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector hexagonal screw head 4 mm	
	Control circuit: 1.2 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	
linimum Switching Voltage	17 V for signalling circuit	
linimum Switching Current	5 mA for signalling circuit	
nsulation 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	
	EN 60947-4-1	
	EN 60947-5-1 IEC 60947-4-1	
	IEC 60947-5-1	
	UL 508	
Product Certifications	RINA	
	CSA	
	CCC BV	
	LROS (Lloyds register of shipping)	
	GL	
	GOST	
	DNV	
	UL UKCA	
p 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	

850 °C conforming to IEC 60695-2-1

V1 conforming to UL 94

Fire Resistance

Flame Retardance

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 (6 Gn for 11 ms)
Height	158 mm
Width	120 mm
Depth	136 mm
Net Weight	2.5 ka

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	19.000 cm
Package 1 Width	17.500 cm
Package 1 Length	21.500 cm
Package 1 Weight	2.469 kg
Unit Type Of Package 2	P06
Number Of Units In Package 2	27
Package 2 Height	75.000 cm
Package 2 Width	60.000 cm
Package 2 Length	80.000 cm
Package 2 Weight	79.663 kg

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

Mercury Free

Rohs Exemption Information

Yes



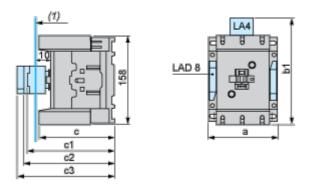
Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration	
Eu Rohs Directive	Compliant with Exemptions	
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information	
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	

Dimensions Drawings

Dimensions



(1) Minimum electrical clearance

LC1		D115 and D150 (3-pole)	
а		120	
	with LA4 DA2	174	
b1	with LA4 DF, DT	185	
В	with LA4 DM, DL	188	
	with LA4 DW	188	
	without cover or add-on blocks	132	
C	with cover, without add-on blocks	136	
c1	with LAD N or C (2 or 4 contacts)	150	
c2	with LA6 DK20	155	
с3	with LAD T, R, S	168	
CS	with LAD T, R, S and sealing cover	172	

Connections and Schema

Wiring

