

CONTACTOR 600VAC 40AMP IEC +OPTIONS

LC1D40M7

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-1 AC-4 AC-2 AC-3 AC-3e	
Poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] rated operational current	40 A (at <60 $^{\circ}$ C) at <= 440 V AC AC-3 for power circuit 60 A (at <60 $^{\circ}$ C) at <= 440 V AC AC-1 for power circuit 40 A (at <60 $^{\circ}$ C) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	220 V AC 50/60 Hz	

Complementary

22 kW at 500 V AC 50 Hz (AC-3) 30 kW at 660690 V AC 50 Hz (AC-3) 22 kW at 1000 V AC 50 Hz (AC-3) 22 kW at 415 V AC 50 Hz (AC-3) 22 kW at 415 V AC 50 Hz (AC-3) 22 kW at 440 V AC 50 Hz (AC-3) 31 kW at 220230 V AC 50 Hz (AC-3) 9 kW at 400 V AC 50 Hz (AC-3) 9 kW at 400 V AC 50 Hz (AC-3) 9 kW at 400 V AC 50 Hz (AC-3e) 22 kW at 500 V AC 50 Hz (AC-3e) 30 kW at 660690 V AC 50 Hz (AC-3e) 22 kW at 1000 V AC 50 Hz (AC-3e) 22 kW at 415 V AC 50 Hz (AC-3e) 22 kW at 440 V AC 50 Hz (AC-3e) 22 kW at 440 V AC 50 Hz (AC-3e) 30 kW at 460 Consolved Action of the following at the following	Motor power kW	18.5 kW at 380400 V AC 50 Hz (AC-3)		
22 kW at 1000 V AC 50 Hz (AC-3) 22 kW at 415 V AC 50 Hz (AC-3) 22 kW at 440 V AC 50 Hz (AC-3) 22 kW at 440 V AC 50 Hz (AC-3) 311 kW at 220230 V AC 50 Hz (AC-3) 9 kW at 400 V AC 50 Hz (AC-4) 18.5 kW at 380400 V AC 50 Hz (AC-3e) 22 kW at 500 V AC 50 Hz (AC-3e) 30 kW at 660690 V AC 50 Hz (AC-3e) 22 kW at 1000 V AC 50 Hz (AC-3e) 22 kW at 415 V AC 50 Hz (AC-3e) 22 kW at 415 V AC 50 Hz (AC-3e) 22 kW at 440 V AC 50 Hz (AC-3e) 31 kW at 220230 V AC 50 Hz (AC-3e) 31 kW at 220230 V AC 50 Hz for 3 phase motors 5 hp at 230/240 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 30 hp at 460/480 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors		22 kW at 500 V AC 50 Hz (AC-3)		
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11 kW at 220230 V AC 50 Hz (AC-3) 9 kW at 400 V AC 50 Hz (AC-4) 18.5 kW at 380400 V AC 50 Hz (AC-3e) 22 kW at 500 V AC 50 Hz (AC-3e) 30 kW at 660690 V AC 50 Hz (AC-3e) 22 kW at 1000 V AC 50 Hz (AC-3e) 22 kW at 1000 V AC 50 Hz (AC-3e) 22 kW at 415 V AC 50 Hz (AC-3e) 22 kW at 415 V AC 50 Hz (AC-3e) 22 kW at 440 V AC 50 Hz (AC-3e) 11 kW at 220230 V AC 50 Hz (AC-3e) Motor power hp 3 hp at 115 V AC 60 Hz for 1 phase motors 5 hp at 230/240 V AC 60 Hz for 3 phases motors 10 hp at 200/208 V AC 60 Hz for 3 phases motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 30 hp at 460/480 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors Compatibility code LC1D Pole contact composition 3 NO		22 kW at 415 V AC 50 Hz (AC-3)		
9 kW at 400 V AC 50 Hz (AC-4) 18.5 kW at 380400 V AC 50 Hz (AC-3e) 22 kW at 500 V AC 50 Hz (AC-3e) 30 kW at 660690 V AC 50 Hz (AC-3e) 22 kW at 1000 V AC 50 Hz (AC-3e) 22 kW at 150 V AC 50 Hz (AC-3e) 22 kW at 415 V AC 50 Hz (AC-3e) 22 kW at 440 V AC 50 Hz (AC-3e) 21 kW at 220230 V AC 50 Hz (AC-3e) 11 kW at 220230 V AC 50 Hz (AC-3e) Motor power hp 3 hp at 115 V AC 60 Hz for 1 phase motors 5 hp at 230/240 V AC 60 Hz for 3 phases motors 10 hp at 200/208 V AC 60 Hz for 3 phases motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 30 hp at 460/480 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors Compatibility code LC1D Pole contact composition 3 NO		22 kW at 440 V AC 50 Hz (AC-3)		
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Motor power hp 3 hp at 115 V AC 60 Hz for 1 phase motors 5 hp at 230/240 V AC 60 Hz for 1 phase motors 10 hp at 200/208 V AC 60 Hz for 3 phases motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 30 hp at 460/480 V AC 60 Hz for 3 phases motors 30 hp at 575/600 V AC 60 Hz for 3 phases motors		22 kW at 415 V AC 50 Hz (AC-3e)		
Motor power hp 3 hp at 115 V AC 60 Hz for 1 phase motors 5 hp at 230/240 V AC 60 Hz for 1 phase motors 10 hp at 200/208 V AC 60 Hz for 3 phases motors 10 hp at 230/240 V AC 60 Hz for 3 phases motors 30 hp at 460/480 V AC 60 Hz for 3 phases motors 30 hp at 4575/600 V AC 60 Hz for 3 phases motors Compatibility code LC1D Pole contact composition 3 NO		22 kW at 440 V AC 50 Hz (AC-3e)		
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Compatibility code LC1D Pole contact composition 3 NO		30 hp at 460/480 V AC 60 Hz for 3 phases motors		
Pole contact composition 3 NO		30 hp at 575/600 V AC 60 Hz for 3 phases motors		
	Compatibility code	LC1D	_	
Protective cover With	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	
Irms rated making capacity	800 A at 440 V for power circuit conforming to IEC 60947 140 A AC for control circuit conforming to IEC 60947-5-1	
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	
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: 600 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 (-4070 °C):drop-out AC 50/60 Hz 0.81.1 Uc (-4060 °C):operational AC 50 Hz 0.851.1 Uc (-4060 °C):operational AC 60 Hz 11.1 Uc (6070 °C):operational AC 50/60 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	A 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	419 ms opening 1226 ms closing	
Maximum operating rate	3600 cyc/h at 60 °C	
Connections - terminals	Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: rigid Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid 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 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: rigid Power circuit: screw terminals 2 2.516 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 2 2.516 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 2 2.516 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 2 2.510 mm² - cable stiffness: flexible with cable end	
Tightening torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw terminal - with screwdriver flat Ø 6 to Ø 8 mm Control circuit: 1.7 N.m - on lugs - 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	
Terminals description ISO n°1	(21-22)NC (13-14)NO (A1-A2)CO	
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	Plate Rail	

Environment

Standards	EN 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 EN 60947-5-1 IEC 60947-4-1 UL 508	
Product certifications	GL BV DNV LROS (Lloyds register of shipping) RINA UL CCC CSA GOST UKCA CB	
IP degree of protection	IP2X conforming to IEC 60529 IP2X conforming to VDE 0106	
Climatic withstand	conforming to IACS E10 exposure to damp heat	
Operating altitude	03000 m	
Fire resistance	850 °C conforming to IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
Mechanical robustness	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	9.5 cm
Package 1 Width	13.2 cm
Package 1 Length	14.0 cm
Package 1 Weight	1.45 kg

Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.555 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	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	56
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances		
Packaging made with recycled cardboard	Yes	
Packaging without single use plastic	Yes	
EU RoHS Directive	Compliant	
REACh Regulation	REACh Declaration	
PVC free	Yes	

Use Again

○ Repack and remanufacture	
Circularity Profile	No need of specific recycling operations
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins