LC1D40G7

Contactor, TeSys Deca,3P(3NO),AC-3/AC-3e/ <=440V 40A,120V AC 50/60Hz coil, screw clamp terminals





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-3 AC-4 AC-1 AC-2
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
[Uc] control circuit voltage	120 V AC 50/60 Hz

Complementary

Complementary	
Motor power kW	18.5 KW at 380400 V AC 50/60 Hz (AC-3) 22 KW at 1000 V AC 50/60 Hz (AC-3) 22 KW at 415 V AC 50/60 Hz (AC-3) 22 KW at 440 V AC 50/60 Hz (AC-3) 22 KW at 500 V AC 50/60 Hz (AC-3) 30 KW at 660690 V AC 50/60 Hz (AC-3) 11 KW at 220230 V AC 50/60 Hz (AC-3) 9 kW at 400 V AC 50/60 Hz (AC-4)
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
[lth] 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	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

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Power dissipation per pole	5.4 W AC-1 2.4 W AC-3
[Ui] rated insulation voltage	Control circuit: 600 V CSA certified[RETURN]Control circuit: 600 V UL certified[RETURN]Power circuit: 600 V CSA certified[RETURN]Power circuit: 600 V UL certified[RETURN]Control circuit: 690 V conforming to IEC 60947-1
Overvoltage category	III
[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	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 50 Hz cos phi 0.3 (at 20 °C) 15 VA 60 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
	cable end Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminal 1 12.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 12.5 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 1 2.535 mm² - cable stiffness: solid with cable end Power circuit: screw clamp terminal 2 2.535 mm² - cable stiffness: solid with cable end Power circuit: screw clamp terminal 1 2.535 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 1 2.535 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 1 2.535 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 1 2.535 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 1 2.535 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 2 2.535 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 clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 8 mm
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 contacts1.5 ms on energisation between NC and NO contacts
Mounting support	Rail Plate

Environment

Standards	UL 508 IEC 60947-4-1
	CSA C22.2 No 14
	EN 60947-4-1
	IEC 60947-5-1
	EN 60947-5-1
Product certifications	UL[RETURN]GL[RETURN]RINA[RETURN]LROS (Lloyds register of shipping) [RETURN]CSA[RETURN]BV[RETURN]CCC[RETURN]GOST[RETURN]DNV
IP degree of protection	IP2X conforming to IEC 60529
2-3 F	IP2X conforming to VDE 0106
Climatic withstand	Conforming to IACS E10 exposure to damp heat
Permissible ambient air temperature around the	-560 °C
device	-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
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

racking units	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.300 cm
Package 1 Width	13.500 cm
Package 1 Length	14.000 cm
Package 1 Weight	1.445 kg
Unit Type of Package 2	S02
Number of Units in Package 2	5
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	7.514 kg
Unit Type of Package 3	P06
Number of Units in Package 3	80
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	128.724 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	☑ REACh Declaration	
REACh free of SVHC	Yes	
EU RoHS Directive	Compliant EEU RoHS Declaration	
Toxic heavy metal free	Yes	
Mercury free	Yes	
China RoHS Regulation	☐ China RoHS Declaration	
RoHS exemption information	€Yes	
Environmental Disclosure	Product Environmental Profile	

Circularity Profile	No need of specific recycling operations
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
PVC free	Yes
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
Contractual warranty	
Warranty	18 months