Product datasheet





Contactor, TeSys Deca, 3P(3NO),AC-3/AC-3e/<=440V 40A,230V AC 50/60Hz coil, screw clamp terminals

LC1D40P7

! Discontinued on: 10 Jul 2021

! 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-4 AC-1 AC-2 AC-3e	
poles description	3P	
[Ue] rated operational voltage	Power circuit: <= 690 V AC 25400 Hz	
[le] rated operational current	40 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 60 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 40 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] control circuit voltage	230 V AC 50/60 Hz	

Complementary

Motor power kW	18.5 kW at 380400 V AC 50 Hz (AC-3)		
	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 440 V AC 50 Hz (AC-3)		
	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 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 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 575/600 V AC 60 Hz for 3 phases motors		
Compatibility code	LC1D		
Pole contact composition	3 NO		
Protective cover	With		

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[Ith] conventional free air thermal current Irms rated making capacity	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 USA certified Power circuit: 600 V USA certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1
Overvoltage category	Ш
[Uimp] rated impulse withstand /oltage	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	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 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
	Control circuit 4.7 N m. on corour slows 4 miles 1 miles - miles 4.7 N m.
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 screw clamp terminal - with screwdriver pozidriv No 2

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
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	EN 60947-5-1 EN 60947-4-1 IEC 60947-4-1 UL 508 CSA C22.2 No 14 IEC 60947-5-1
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	9.500 cm
Package 1 Width	13.000 cm

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.500 cm
Package 1 Width	13.000 cm
Package 1 Length	14.000 cm
Package 1 Weight	1.453 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	7.398 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	128.192 kg

Contractual warranty

Warranty 18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
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	No need of specific recycling operations