Product datasheet

Specifications





contactor TeSys Deca - 3 poles - AC-3 440V 40 A - coil 12 V DC

LC1D40MD

! Discontinued on: 23 Jan 2021

① 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
	AC-2
	AC-4
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
[Uc] Control Circuit Voltage	220 V DC

Complementary

Motor Power Kw	18.5 kW at 380400 V AC 50 Hz	
	22 kW at 500 V AC 50 Hz	
	30 kW at 660690 V AC 50 Hz	
	11 kW at 220230 V AC 50 Hz	
	22 kW at 415 V AC 50 Hz	
	22 kW at 440 V AC 50 Hz	
	22 kW at 1000 V AC 50 Hz	
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	
[Ith] Conventional Free Air	10 A (at 60 °C) for control circuit	
Thermal Current	60 A (at 60 °C) for power circuit	
Irms Rated Making Capacity	250 A DC 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	
	,	

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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
[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 60947-1
	Power circuit: 690 V conforming to IEC 60947-1
	Power circuit: 1000 V conforming to IEC 60947-4-1
Overvoltage Category	Ш
[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
Mechanical Durability	13849-1
	10000000 cycles
Control Circuit Type	DC standard
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.10.3 Uc (-4070 °C):drop-out DC
	0.751.25 Uc (-4060 °C):operational DC
	11.25 Uc (6070 °C):operational DC
Inrush Power In W	19 W (at 20 °C)
Hold-In Power Consumption In W	7.4 W at 20 °C
Operating Time	20 ms opening
Time Constant	50 ms closing 34 ms
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 1 2.525 mm - cable stiffness: rigid
	Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible without cable
	end
	Power circuit: screw terminals 2 2.516 mm ² - cable stiffness: flexible without cable
	end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible with cable end
	Power circuit: screw terminals 1 2.525 mm cable stiffness: flexible with cable end Power circuit: screw terminals 2 2.510 mm ² - cable stiffness: flexible with cable end
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm
5	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 Contact Composition	Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2 1 NO + 1 NC
	<u> </u>
	1 NO + 1 NC
Auxiliary Contacts Type	1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
Auxiliary Contact Composition Auxiliary Contacts Type Minimum Switching Voltage Minimum Switching Current	1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1

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	
mounting Support	Plate	
Environment		
Standards	EN 60947-5-1	
	IEC 60947-5-1	
	EN 60947-4-1	
	IEC 60947-4-1	
	UL 508	
	CSA C22.2 No 14	
Product Certifications	DNV	
	GL	
	CCC	

	IEC 60947-5-1 EN 60947-4-1 IEC 60947-4-1 UL 508	
	CSA C22.2 No 14	
Product Certifications	DNV GL CCC RINA UL LROS (Lloyds register of shipping) BV CSA GOST	
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	85 mm	
Depth	176 mm	
Net Weight	2.185 kg	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months
**arranty	10 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
Ø	Pvc Free	

Certifications & Standards

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	End of Life Information