Product datasheet

Specifications





TeSys D contactor - 3P(3 NO) -AC-3 - <= 440 V 40 A - 110 V DC standard coil

LC1D40AFD

Main

Range	TeSys TeSys Deca	
Range Of Produc	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	
Poles Description	ЗР	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[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	110 V DC	

Complementary

Motor Power Kw	18.5 kW at 380400 V AC 50/60 Hz (AC-3)	
	11 kW at 220230 V AC 50/60 Hz (AC-3)	
	22 kW at 415440 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)	
	9 kW at 400 V AC 50/60 Hz (AC-4)	
Motor Power Hp	5 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	10 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	30 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
	10 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	3 hp at 115 V AC 50/60 Hz for 1 phase motors	
	30 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Contact Compatibility	M4	
Protective Cover	With	
[Ith] Conventional Free Air	10 A (at 60 °C) for signalling circuit	
Thermal Current	60 A (at 60 °C) for power circuit	
Irms Rated Making Capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1	
	250 A DC for signalling 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		
[Icw] Rated Short-Time Withstand Current	320 A 40 °C - 10 s for power circuit 720 A 40 °C - 1 s for power circuit 72 A 40 °C - 10 min for power circuit 165 A 40 °C - 1 min 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	10 A gG for signalling 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		
Power Dissipation Per Pole	2.4 W AC-3 5.4 W AC-1		
[Ui] Rated Insulation Voltage	Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified Power circuit: 690 V conforming to IEC 60947-4-1		
Overvoltage Category	Ш		
Pollution Degree	3		
[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	10 Mcycles		
Electrical Durability	0.7 Mcycles 60 A AC-1 at Ue <= 440 V 1.5 Mcycles 40 A AC-3 at Ue <= 440 V		
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	50 ±15 % ms closing 20 ±20 % ms opening		
Time Constant	34 ms		
Maximum Operating Rate	3600 cyc/h 60 °C		

Maximum Operating Rate

3600 cyc/h 60 °C

Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end		
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible without cable end		
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: flexible without cable end		
	Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: flexible with cable end		
	control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without cable end		
	Control circuit: screw clamp terminals 2 14 mm ² - cable stiffness: solid without cable end		
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible without cable end		
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible without cable end		
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: flexible with cable end		
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: flexible with cable end		
	Power circuit: EverLink BTR screw connectors 1 135 mm ² - cable stiffness: solid without cable end		
	Power circuit: EverLink BTR screw connectors 2 125 mm ² - cable stiffness: solid without cable end		
Tightening Torque	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 8 N.m - on EverLink BTR screw connectors - cable 2535 mm ² hexagonal screw head 4 mm Power circuit: 5 N.m - on EverLink BTR screw connectors - cable 125 mm ² hexagonal screw head 4 mm		
	Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 2.5 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		
Minimum Switching Voltage	17 V for signalling circuit		
Minimum Switching Current	5 mA for signalling circuit		
Insulation 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	Plate Rail		
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 IEC 60335-1		
Product Certifications	UL CCC CSA		
	GOST		
Ip Degree Of Protection	IP20 front face conforming to IEC 60529		
Protective Treatment	TH conforming to IEC 60068-2-30		

 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
 -40...60 °C 60...70 °C with derating

Operating Altitude	03000 m		
Fire Resistance	850 °C conforming to IEC 60695-2-1		
Flame Retardance	V1 conforming to UL 94		
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 (10 Gn for 11 ms)		
Height	122 mm		
Width	55 mm		
Depth	120 mm		
Net Weight	0.925 kg		
Packing Units			
Unit Type Of Package 1	PCE		
Number Of Units In Package 1	1		
Package 1 Height	6.2 cm		
Package 1 Width	13.7 cm		
Package 1 Length	15.2 cm		
Package 1 Weight	994.0 g		

Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	6.2 cm	5
Package 1 Width	13.7 cm	
Package 1 Length	15.2 cm	
Package 1 Weight	994.0 g	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	10	
Package 2 Height	15 cm	
Package 2 Width	30 cm	
Package 2 Length	40 cm	
Package 2 Weight	10.281 kg	

Contractual warranty

Warranty

18 months

Sustainability Seren

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

Reach Free Of Svhc

Yoxic 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	End of Life Information	

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