Specifications



Contactor, TeSys Deca, 3P(3NO), AC-3/AC-3e, <=440V, 80A, 120V DC standard coil, screw clamp terminals

LC1D80GD

Main

Wall	
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-3e AC-4 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 300 V DC 25400 Hz Power circuit: <= 690 V AC
[le] Rated Operational Current	125 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 80 A (at <60 °C) at <= 440 V AC AC-3e for power circuit
[LIC] Control Circuit Voltage	125 V DC

[Uc] Control Circuit Voltage

125 V DC

Complementary

Motor Power Kw	22 kW at 220230 V AC 50/60 Hz (AC-3)	
	37 kW at 380400 V AC 50/60 Hz (AC-3)	
	45 kW at 415440 V AC 50/60 Hz (AC-3)	
	55 kW at 500 V AC 50/60 Hz (AC-3)	
	45 kW at 660690 V AC 50/60 Hz (AC-3)	
	15 kW at 400 V AC 50/60 Hz (AC-4)	
	22 kW at 220230 V AC 50/60 Hz (AC-3e) 37 kW at 380400 V AC 50/60 Hz (AC-3e)	
	45 kW at 415440 V AC 50/60 Hz (AC-3e)	
	55 kW at 500 V AC 50/60 Hz (AC-3e)	
	45 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	7.5 hp at 120 V AC 50/60 Hz for 1 phase motors	
	15 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	30 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	30 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	60 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	60 hp at 575/600 V AC 50/60 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 signalling circuit	
Thermal Current	125 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	
	1100 A at 440 V for power circuit conforming to IEC 60947	

1100 A at 440 V for power circuit conforming to IEC 60947
640 A 40 °C - 10 s for power circuit 990 A 40 °C - 1 s for power circuit 135 A 40 °C - 10 min for power circuit 320 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
10 A gG for signalling circuit conforming to IEC 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit
0.8 mOhm - Ith 125 A 50 Hz for power circuit
5.1 W AC-3 12.5 W AC-1 5.1 W AC-3e
Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Power circuit: 1000 V conforming to IEC 60947-4-1 Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 600 V CSA certified Signalling circuit: 600 V UL certified
III
3
8 kV conforming to IEC 60947
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
4 Mcycles
0.8 Mcycles 125 A AC-1 at Ue <= 440 V 1.5 Mcycles 80 A AC-3 at Ue <= 440 V 1.5 Mcycles 80 A AC-3e at Ue <= 440 V
DC standard
Without built-in suppressor module
0.10.3 Uc (-4070 °C):drop-out DC 0.851.1 Uc (-4055 °C):operational DC 11.1 Uc (5570 °C):operational DC
22 W (at 20 °C)
22 W at 20 °C
95130 ms closing 2035 ms opening
75 ms
3600 cyc/h 60 °C
Control circuit: screw clamp terminals 2 12.5 mm ² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 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 without cable end Control circuit: screw clamp terminals 1 14 mm ² - cable stiffness: solid without 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: connector 1 450 mm ² - cable stiffness: flexible without cable end Power circuit: connector 2 425 mm ² - cable stiffness: flexible without cable end Power circuit: connector 1 450 mm ² - cable stiffness: flexible without cable end Power circuit: connector 1 450 mm ² - cable stiffness: flexible without cable end Power circuit: connector 1 450 mm ² - cable stiffness: flexible without cable end Power circuit: connector 1 450 mm ² - cable stiffness: flexible without cable end

Tightening Torque	Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminals - with screwdriver Philips No 2 Power circuit: 12 N.m - on connector - with screwdriver flat Ø 6 to Ø 8 mm Power circuit: 12 N.m - on connector hexagonal screw head 4 mm Control circuit: 1.2 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	Rail Plate

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
Product Certifications	RINA CCC CSA DNV GOST LROS (Lloyds register of shipping) UL BV GL
Ip Degree Of Protection	IP20 front face conforming to IEC 60529
Protective Treatment	TH conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-4060 °C 6070 °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) Shocks contactor open (8 Gn for 11 ms) Vibrations contactor closed (3 Gn, 5300 Hz) Shocks contactor closed (10 Gn for 11 ms)
Height	127 mm
Width	85 mm
Depth	186 mm
Net Weight	2.59 kg

Packing Units

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

Package 1 Height	21.000 cm
Package 1 Width	10.000 cm
Package 1 Length	14.000 cm
Package 1 Weight	2.580 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	3
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	8.195 kg

Contractual warranty

Warranty

18 months

Sustainability

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

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Well-being performance

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

Certifications & Standards

Compliant
EU RoHS Declaration
China RoHS declaration
Pro-active China RoHS declaration (out of China RoHS legal scope)
Product Environmental Profile
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
No need of specific recycling operations
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