Specifications



TeSys Deca contactor , 4P(4 NO) , AC-1 , <= 440V, 80 A , 250V DC standard coil

LC1DT80AUD

() Discontinued on: Oct 10, 2020 AD

① Discontinued

Main

Range	TeSys	
Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Resistive load	
Utilisation Category	AC-1	
Poles Description	4P	
Je] Rated Operational Voltage Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC		
[Ie] Rated Operational Current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	250 V DC	

Complementary

Compatibility Code	LC1D
Pole Contact Composition	4 NO
Contact Compatibility	M7
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 80 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 1000 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	640 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit 110 A 40 °C - 10 min for power circuit 260 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 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 125 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	1.6 mOhm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	10.2 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	III
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	0.5 Mcycles 80 A AC-1 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 1624 ms opening
Time Constant	34 ms
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 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 with 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 2 125 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 2 125 mm ² - cable stiffness: solid without cable end Power circuit: EverLink BTR screw connectors 2 125 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 screw clamp terminals - cable 2535 mm ² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 125 mm ² hexagonal screw head 4 mm
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Auxiliary Contact Composition	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 screw clamp terminals - cable 2535 mm ² hexagonal screw head 4 mm Power circuit: 5 N.m - on screw clamp terminals - cable 125 mm ² hexagonal screw head 4 mm 1 NO + 1 NC type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1

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

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	GL CCC CSA BV RINA DNV LROS (Lloyds register of shipping) UL GOST	
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 conforming to IEC 60947-1 Annex Q category D exposure to damp heat	
Permissible Ambient Air Temperature Around The Device	-4060 °C e 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) 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	70 mm	
Depth	120 mm	
Net Weight	1.225 kg	

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.5 cm
Package 1 Width	14 cm
Package 1 Length	15 cm
Package 1 Weight	1.1 kg

Contractual warranty

Warranty

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 >

Well-being performance

	Reach Free Of Svhc	
	Toxic Heavy Metal Free	
	Mercury Free	
	Rohs Exemption Information	Yes
	Pvc Free	
Eu R	ohs Directive	Compliant
		EU RoHS Declaration
Chin	a Rohs Regulation	China RoHS declaration
		Pro-active China RoHS declaration (out of China RoHS legal scope)
Wee	e	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins