

TeSys Deca contactor , 4P(4 NO) , AC-1 , <= 440V, 40 A , 20V DC low cons coil

LC1DT40ZL

! Discontinued

Main

Range	TeSys			
Range Of Product	TeSys Deca			
Product Or Component Type	De Contactor			
Device Short Name	LC1D			
Contactor Application	Resistive load			
Utilisation Category	AC-1 AC-3 AC-3e AC-4			
Poles Description	4P			
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC			
[le] Rated Operational Current	40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit			
[Uc] Control Circuit Voltage	20 V DC			

Complementary

J				
Compatibility Code	LC1D			
Pole Contact Composition	4 NO			
Contact Compatibility	M5			
Protective Cover	With			
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 40 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 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947			
Rated Breaking Capacity	450 A at 440 V for power circuit conforming to IEC 60947			
[Icw] Rated Short-Time Withstand Current	50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s 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 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit			
Average Impedance	2 mOhm - Ith 40 A 50 Hz for power circuit			
Power Dissipation Per Pole	3.2 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	6 kV conforming to IEC 60947				
Voltage 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	30 Mcycles				
Electrical Durability	1.4 Mcycles 40 A AC-1 at Ue <= 440 V				
Control Circuit Type	DC low consumption				
Coil Technology	Built-in bidirectional peak limiting diode suppressor				
Control Circuit Voltage Limits	0.10.3 Uc (-4070 °C):drop-out DC 0.81.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC				
Inrush Power In W	2.4 W (at 20 °C)				
Hold-In Power Consumption In W	2.4 W at 20 °C				
Operating Time	65.4588.55 ms closing 2030 ms opening				
Time Constant	40 ms				
Maximum Operating Rate	3600 cyc/h 60 °C				
Connections - Terminals	Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end 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 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end				
Tightening Torque	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 2.510 mm² - cable stiffness: solid without cable end				
Tightening Torque Auxiliary Contact Composition	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.510 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips				
	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2				
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Auxiliary Contact Composition Auxiliary Contacts Type	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.510 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 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				
Auxiliary Contact Composition Auxiliary Contacts Type Signalling Circuit Frequency	cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible without cable end Power circuit: connector 2 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 1 2.510 mm² - cable stiffness: flexible with cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Power circuit: connector 2 2.516 mm² - cable stiffness: solid without cable end Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver flat Ø 6 mm Control circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 Power circuit: 1.7 N.m - on EverLink BTR screw connectors - with screwdriver Philips No 2 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 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		
Product Certifications	CCC RINA LROS (Lloyds register of shipping) GL CSA GOST DNV UL BV		
lp 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	-6080 °C storage -4060 °C operation 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 (8 Gn for 11 ms)		
Height	91 mm		
Width	45 mm		
Depth	107 mm		
Net Weight	0.425 kg		

Packing Units

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

Contractual warranty

Warrantv	18 months	