

TeSys Deca contactor , 4P(4 NO) , AC-1 , <= 440V, 20 A , 100V DC standard coil

LC1DT20KD

(!) 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 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	20 A (at <60 °C) at <= 440 V AC AC-1 for power circuit			
[Uc] Control Circuit Voltage	100 V DC			

Complementary

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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 20 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 60947-5-1 250 A at 440 V for power circuit conforming to IEC 60947			
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947			
[Icw] Rated Short-Time Withstand Current	30 A 40 °C - 10 min for power circuit 61 A 40 °C - 1 min for power circuit 105 A 40 °C - 10 s for power circuit 210 A 40 °C - 1 s for power circuit 210 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 25 A gG at <= 690 V coordination type 1 for power circuit 20 A gG at <= 690 V coordination type 2 for power circuit			
Average Impedance	2.5 mOhm - Ith 20 A 50 Hz for power circuit			
Power Dissipation Per Pole	1.56 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				
Control Circuit Type	DC standard				
Coil Technology	Built-in bidirectional peak limiting diode suppressor				
Control Circuit Voltage Limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC				
Inrush Power In W	5.4 W (at 20 °C)				
Hold-In Power Consumption In W	5.4 W at 20 °C				
Operating Time	1624 ms opening 53.5572.45 ms closing				
Time Constant	28 ms				
Maximum Operating Rate	3600 cyc/h 60 °C				
Connections - Terminals Tightening Torque	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 Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 2 14 mm² - cable stiffness: flexible without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: flexible with cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminals 1 14 mm² - 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: 1.7 N.m - on screw clamp terminals - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver Philips 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	CSA BV RINA GL DNV CCC UL GOST LROS (Lloyds register of shipping)			
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	-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 (10 Gn for 11 ms)			
Height	85 mm			
Width	45 mm			
Depth	99 mm			
Net Weight	0.365 kg			

Packing Units

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

Contractual warranty

Warrantv	18 months	