

TeSys Deca changeover contactor - 4P(4 NO) - AC-1 - <= 440 V 32 A - 5 V DC coil

LC2DT32AL

① Discontinued

## Main

Range	TeSys		
Product Name	TeSys Deca		
Product Or Component Type	Changeover contactor		
Device Short Name	LC2D		
Contactor Application	Resistive load		
Utilisation Category	AC-1 AC-3 AC-3e AC-4		
Device Presentation	Preassembled, with prewired power connections		
Poles Description	4P		
Power Pole Contact Composition	4 NO		
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC		
[le] Rated Operational Current	32 A (at <60 °C) at <= 440 V AC AC-1 for power circuit		
Control Circuit Type	DC low consumption		
[Uc] Control Circuit Voltage	5 V DC		
Auxiliary Contact Composition	1 NO + 1 NC		
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947		
Overvoltage Category	III		
[Ith] Conventional Free Air Thermal Current	10 A (at 60 °C) for signalling circuit 32 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 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947		
Rated Breaking Capacity	300 A at 440 V for power circuit conforming to IEC 60947		
[Icw] Rated Short-Time Withstand Current	40 A 40 °C - 10 min for power circuit 84 A 40 °C - 1 min for power circuit 145 A 40 °C - 10 s for power circuit 240 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 50 A gG at <= 690 V coordination type 1 for power circuit 35 A gG at <= 690 V coordination type 2 for power circuit		
Average Impedance	2.5 mOhm - Ith 32 A 50 Hz for power circuit		

[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1 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		
Electrical Durability	1 Mcycles 32 A AC-1 at Ue <= 440 V		
Power Dissipation Per Pole	2.5 W AC-1		
Front Cover	With		
Interlocking Type	Mechanical		
Mounting Support	Plate Rail		
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	GOST CSA CCC LROS (Lloyds register of shipping) GL RINA UL BV DNV		
Connections - Terminals	Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 2 cable(s) 14 mm²flexible without cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²flexible with cable end Control circuit: screw clamp terminals 2 cable(s) 12.5 mm²flexible with cable end Control circuit: screw clamp terminals 1 cable(s) 14 mm²solid Control circuit: screw clamp terminals 2 cable(s) 14 mm²solid Power circuit: connector 1 cable(s) 2.510 mm²flexible without cable end Power circuit: connector 2 cable(s) 2.510 mm²flexible without cable end Power circuit: connector 1 cable(s) 2.510 mm²flexible with cable end Power circuit: connector 2 cable(s) 2.510 mm²flexible with cable end Power circuit: connector 1 cable(s) 2.516 mm²solid Power circuit: connector 1 cable(s) 2.516 mm²solid		
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 connector - with screwdriver flat Ø 6 mm Power circuit: 1.7 N.m - on connector - with screwdriver Philips No 2		
Operating Time	65.4588.55 ms closing 2030 ms opening		
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		
Maximum Operating Rate	3600 cyc/h 60 °C		
Complementary			
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		
Time Constant	40 ms		
Inrush Power In W	2.4 W (at 20 °C)		
Hold-In Power Consumption In W	2.4 W at 20 °C		

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 Current	5 mA for signalling circuit			
Minimum Switching Voltage	17 V 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			
Insulation Resistance	> 10 MOhm for signalling circuit			

## **Environment**

Ip Degree Of Protection	IP20 front face conforming to IEC 60529		
Climatic Withstand	conforming to IACS E10 conforming to IEC 60947-1 Annex Q category D		
Protective Treatment	TH conforming to IEC 60068-2-30		
Pollution Degree	3		
Ambient Air Temperature For Operation	-4060 °C 6070 °C with derating		
Ambient Air Temperature For Storage	-6080 °C		
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	90 mm		
Depth	98 mm		
Net Weight	0.85 kg		

## **Packing Units**

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

## **Contractual warranty**

Warranty	18 months	