

TeSys Deca contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 40 A - 305 V DC coil

LC1D2583TD

! 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	40 A (at <60 °C) at <= 440 V AC AC-1 for power circuit
[Uc] Control Circuit Voltage	305 V DC

Complementary

Compatibility Code	LC1D
Pole Contact Composition	2 NO + 2 NC
Contact Compatibility	M7
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	240 A 40 °C - 10 s for power circuit 380 A 40 °C - 1 s for power circuit 50 A 40 °C - 10 min for power circuit 120 A 40 °C - 1 min for power circuit 120 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 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: 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	
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	30 Mcycles	
Electrical Durability	1.4 Mcycles 40 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	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC	
nrush Power In W	5.4 W (at 20 °C)	
Hold-In Power Consumption In W	5.4 W at 20 °C	
Operating Time	53.5572.45 ms closing 1624 ms opening	
Time Constant	28 ms	
Maximum Operating Rate	3600 cyc/h 60 °C	
Connections - Terminals	Control circuit: spring terminals 1 2.5 mm² - cable stiffness: flexible without cable end Control circuit: spring terminals 2 2.5 mm² - cable stiffness: flexible without cable end Power circuit: spring terminals 1 10 mm² - cable stiffness: flexible without cable end	
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	
linimum Switching Voltage	17 V for signalling circuit	
Minimum Switching Current	5 mA for signalling circuit	
nsulation 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	UL		
	GL		
	RINA		
	LROS (Lloyds register of shipping)		
	DNV		
	BV		
	CSA		
	GOST		
	CCC		
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	-6080 °C storage		
Temperature Around The Device	-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	0.585 kg		

Packing Units

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

Contractual warranty

Warranty 18 months