

TeSys Deca contactor - 4P(2 NO + 2 NC) - AC-1 - <= 440 V 40 A - 575 V DC coil

LC1D2583SCD

! 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	575 V DC

Complementary

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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

Environment		
Mounting Support	Plate Rail	
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	
Minimum Switching Current	5 mA for signalling circuit	
Minimum Switching Voltage	17 V for signalling circuit	
Signalling Circuit Frequency	25400 Hz	
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	
Auxiliary Contact Composition	1 NO + 1 NC	
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	
Maximum Operating Rate	3600 cyc/h 60 °C	
Fime Constant	28 ms	
Operating Time	53.5572.45 ms closing 1624 ms opening	
Hold-In Power Consumption In W	5.4 W at 20 °C	
nrush Power In W	5.4 W (at 20 °C)	
	11.25 Uc (6070 °C):operational DC	
Control Circuit Voltage Limits	0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC	
Coil Technology	Built-in bidirectional peak limiting diode suppressor	
Control Circuit Type	DC standard	
Electrical Durability	1.4 Mcycles 40 A AC-1 at Ue <= 440 V	
Mechanical Durability	30 Mcycles	
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	
[Uimp] Rated Impulse Withstand Voltage	d 6 kV conforming to IEC 60947	
Pollution Degree	3	
Overvoltage Category	III	
or Nateu insulation voltage	Power circuit: 690 V CSA certified Power circuit: 690 V UL certified Signalling circuit: 690 V conforming to IEC 60947-1 Signalling circuit: 690 V CSA certified Signalling circuit: 600 V UL certified	
[Ui] Rated Insulation Voltage	Power circuit: 690 V conforming to IEC 60947-4-1	

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
	CSA
	BV
	GOST
	UL
	DNV
	LROS (Lloyds register of shipping)
	CCC
	RINA
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 IACS 210 exposure to damp heat
	Comorning to 120 00047 174 mex & category B exposure to damp near
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