# **Product datasheet**





# TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 12 A - 36 V DC coil

LC1D12CD

① Discontinued

#### Main

Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Motor control Resistive load	
Utilisation Category	AC-4 AC-1 AC-3 AC-3e	
Poles Description	3P	
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz Power circuit: <= 300 V DC	
[le] Rated Operational Current	25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 12 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] Control Circuit Voltage	36 V DC	

### Complementary

Motor Power Kw	3 kW at 220230 V AC 50/60 Hz (AC-3)	
	5.5 kW at 380400 V AC 50/60 Hz (AC-3)	
	5.5 kW at 415440 V AC 50/60 Hz (AC-3)	
	7.5 kW at 500 V AC 50/60 Hz (AC-3)	
	7.5 kW at 660690 V AC 50/60 Hz (AC-3)	
	3.7 kW at 400 V AC 50/60 Hz (AC-4)	
	3 kW at 220230 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 380400 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 415440 V AC 50/60 Hz (AC-3e)	
	7.5 kW at 500 V AC 50/60 Hz (AC-3e)	
	7.5 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	0.5 hp at 115 V AC 50/60 Hz for 1 phase motors	
	2 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	3 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	3 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	7.5 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	10 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Protective Cover	With	
[Ith] Conventional Free Air	25 A (at 60 °C) for power circuit	
Thermal Current	10 A (at 60 °C) for signalling circuit	

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Irms Rated Making Capacity	250 A at 440 V for power circuit conforming to IEC 60947
	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	105 A 40 °C - 10 s for power circuit
Current	210 A 40 °C - 1 s for power circuit
	30 A 40 °C - 10 min for power circuit
	61 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	40 A a C for signalling significant properties to IFC 60047 F.4
Associated Fuse Rating	10 A gG for signalling circuit conforming to IEC 60947-5-1
	40 A gG at <= 690 V coordination type 1 for power circuit
	25 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
Power Dissipation Per Pole	0.36 W AC-3
	1.56 W AC-1
	0.36 W AC-3e
[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
	Signalling circuit. 600 V OE 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
	100-10 1
Mechanical Durability	30 Mcycles
Electrical Durability	2 Mcycles 12 A AC-3 at Ue <= 440 V
	0.8 Mcycles 25 A AC-1 at Ue <= 440 V
	2 Mcycles 12 A AC-3e at Ue <= 440 V
Control Circuit Type	DC standard
Coil Technology	With integral suppression device
Control Circuit Voltage Limits	0.10.25 Uc (-4070 °C):drop-out DC
	0.71.25 Uc (-4010 °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	63 ±15 % ms closing
	20 ±20 % ms opening
<del></del>	
Time Constant	28 ms
Maximum Operating Rate	3600 cyc/h 60 °C

Connections - Terminals	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 2 12.5 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 2 14 mm² - cable stiffness: solid without 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 2 12.5 mm <sup>2</sup> - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 1 14 mm <sup>2</sup> - cable stiffness: solid without cable end	
	Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: solid without cable end	
Tightening Torque	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 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 Control circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv No 2 Power circuit: 1.7 N.m - on screw clamp terminals - with screwdriver pozidriv 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	
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	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	
	IEC 60335-1	
Product Certifications	GL	
	BV DNV	
	DNV LROS (Lloyds register of shipping)	
	RINA	
	UL	
	CCC CSA	
	GOST	
	UKCA CB	
p Degree Of Protection	IP20 front face conforming to IEC 60529	
Protective Treatment	<u> </u>	
Toteduve Treatifient	tective 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	-4060 °C 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 open (10 Gn for 11 ms) Shocks contactor closed (15 Gn for 11 ms)	
Height	77 mm	
Width	45 mm	
Depth	95 mm	
Net Weight	0.485 kg	

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	4.9 cm
Package 1 Width	11.1 cm
Package 1 Length	8.9 cm
Package 1 Weight	362.0 g

### **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

### Well-being performance

	Mercury Free	
<b>⊘</b>	Rohs Exemption Information	Yes
<b>⊘</b>	Pvc Free	

#### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information