



TeSys D contactor - 3P(3 NO) - AC-3 - <= 440 V 9 A - 250 V DC coil

LC1D09UD

EAN Code: 3389110353686



Main

Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Motor control Resistive load	
Utilisation Category	AC-3 AC-4 AC-1 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	9 A (at <60 °C) at <= 440 V AC AC-3 for power circuit 25 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 9 A (at <60 °C) at <= 440 V AC AC-3e for power circuit	
[Uc] Control Circuit Voltage	250 V DC	

Complementary

Motor Power Kw	2.2 kW at 220230 V AC 50/60 Hz (AC-3)	
	4 kW at 380400 V AC 50/60 Hz (AC-3)	
	4 kW at 415440 V AC 50/60 Hz (AC-3)	
	5.5 kW at 500 V AC 50/60 Hz (AC-3)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3)	
	2.2 kW at 400 V AC 50/60 Hz (AC-4)	
	2.2 kW at 220230 V AC 50/60 Hz (AC-3e)	
	4 kW at 380400 V AC 50/60 Hz (AC-3e)	
	4 kW at 415440 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 500 V AC 50/60 Hz (AC-3e)	
	5.5 kW at 660690 V AC 50/60 Hz (AC-3e)	
Motor Power Hp	1 hp at 230/240 V AC 50/60 Hz for 1 phase motors	
	2 hp at 200/208 V AC 50/60 Hz for 3 phases motors	
	2 hp at 230/240 V AC 50/60 Hz for 3 phases motors	
	5 hp at 460/480 V AC 50/60 Hz for 3 phases motors	
	7.5 hp at 575/600 V AC 50/60 Hz for 3 phases motors	
	0.33 hp at 115 V AC 50/60 Hz for 1 phase 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	

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	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 25 A 50 Hz for power circuit
Power Dissipation Per Pole	1.56 W AC-1
	0.2 W AC-3
	0.2 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
Overvoltage Category	
Pollution Degree	3
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
	6 kV conforming to IEC 60947 B10d = 1369863 cycles contactor with nominal load conforming to EN/ISO 13849-1
Voltage	
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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
Voltage Safety Reliability Level Mechanical Durability	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V
Voltage Safety Reliability Level Mechanical Durability	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 30 Mcycles
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Voltage Safety Reliability Level Mechanical Durability Electrical Durability	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V
Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor
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Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC
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Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C)
Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C)
Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W Operating Time	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C 63 ±15 % ms closing 20 ±20 % ms opening
Voltage Safety Reliability Level Mechanical Durability Electrical Durability Control Circuit Type Coil Technology Control Circuit Voltage Limits Inrush Power In W Hold-In Power Consumption In W	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 30 Mcycles 0.6 Mcycles 25 A AC-1 at Ue <= 440 V 2 Mcycles 9 A AC-3 at Ue <= 440 V 2 Mcycles 9 A AC-3e at Ue <= 440 V DC standard Built-in bidirectional peak limiting diode suppressor 0.10.25 Uc (-4070 °C):drop-out DC 0.71.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 5.4 W (at 20 °C) 5.4 W at 20 °C

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 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 2 12.5 mm ² - 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 mm ² - 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 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: 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
1 NO +1 NC
type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1 type mirror contact 1 NC conforming to IEC 60947-4-1
25400 Hz
17 V for signalling circuit
5 mA for signalling circuit
> 10 MOhm for signalling circuit
1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
Rail Plate
CSA C22.2 No 14
EN 60947-4-1
EN 60947-5-1 IEC 60947-4-1
IEC 60947-5-1 UL 508
GL
BV
DNV LROS (Lloyds register of shipping)
RINA
UL
CCC
CCC CSA
CSA GOST
CSA
CSA GOST UKCA
CSA GOST UKCA CB

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	0.48 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	364.0 g

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

	Mercury Free	
⊘	Rohs Exemption Information	Yes
⊘	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