



contactor TeSys Deca - 3 poles - AC-3 440V 50 A - coil 12 V DC

LC1D50JD

! Discontinued on: 10 Oct 2020

EAN Code: 3389110421477

(!) Discontinued

Main

Range	TeSys
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-1 AC-2 AC-3 AC-1
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit: <= 690 V AC 25400 Hz
[le] Rated Operational Current	80 A (at <60 °C) at <= 440 V AC AC-1 for power circuit 65 A (at <60 °C) DC AC-3 for power circuit 80 A (at <60 °C) DC AC-1 for power circuit
[Uc] Control Circuit Voltage	380 V DC

Complementary

Motor Power Kw	25 kW at 415 V AC 50 Hz	
	30 kW at 440 V AC 50 Hz	
	30 kW at 500 V AC 50 Hz	
	33 kW at 660690 V AC 50 Hz	
	15 kW at 220230 V AC 50 Hz	
	30 kW at 1000 V AC 50 Hz	
	37 kW at 500 V AC 50 Hz	
	30 kW at 380400 V AC 50 Hz	
Motor Power Hp	7.5 hp at 230/240 V AC 60 Hz for 1 phase motors	
	15 hp at 200/208 V AC 60 Hz for 3 phases motors	
	15 hp at 230/240 V AC 60 Hz for 3 phases motors	
	40 hp at 460/480 V AC 60 Hz for 3 phases motors	
	40 hp at 575/600 V AC 60 Hz for 3 phases motors	
	10 hp at 230/240 V AC 60 Hz for 1 phase motors	
	5 hp at 115 V AC 60 Hz for 1 phase motors	
Compatibility Code	LC1D	
Pole Contact Composition	3 NO	
Protective Cover	With	
[Ith] Conventional Free Air	80 A (at 60 °C) for power circuit	
Thermal Current	10 A (at 60 °C) for control circuit	
Irms Rated Making Capacity	900 A at 440 V DC for power circuit conforming to IEC 60947	
	1000 A at 440 V for power circuit conforming to IEC 60947	
	250 A DC for control circuit conforming to IEC 60947-5-1	

Rated Breaking Capacity	1000 kA at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand Current	520 A 40 °C - 10 s for power circuit 900 A 40 °C - 1 s for power circuit
Associated Fuse Rating	100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit conforming to IEC 60947-5-1 125 A gG at <= 690 V coordination type 1 for power circuit 10 A gG for control circuit conforming to IEC 60947-5-1
Average Impedance	1.5 Ohm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	9.6 W AC-1 6.3 W AC-3
[Ui] Rated Insulation Voltage	Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified conforming to IEC 60947-1 Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V CSA certified conforming to IEC 60947-1 Control circuit: 600 V CSA certified
Overvoltage Category	III
[Uimp] Rated Impulse Withstand Voltage	6 kV conforming to IEC 60947
Safety Reliability Level	B10d = 20000000 cycles contactor with mechanical load conforming to EN/ISO 13849-1
Mechanical Durability	10000000 cycles
Control Circuit Type	DC standard
Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.751.25 Uc (-4060 °C):operational DC 11.25 Uc (6070 °C):operational DC 0.10.3 Uc (-4070 °C):drop-out DC
Inrush Power In W	19 W (at 20 °C)
Hold-In Power Consumption In W	7.4 W at 20 °C
Heat Dissipation	45 W at 50/60 Hz for control circuit
Operating Time	50 ±15 % ms closing 1226 ms closing 419 ms opening
Maximum Operating Rate	3600 cyc/mn 60 °C
Connections - Terminals Tightening Torque	Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid 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 12.5 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 12.5 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: rigid Power circuit: screw terminals 2 2.516 mm² - cable stiffness: rigid without cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 1 2.525 mm² - cable stiffness: flexible without cable end Power circuit: screw terminals 2 2.516 mm² - cable stiffness: flexible with cable end Power circuit: screw terminals 2 2.510 mm² - cable stiffness: flexible with cable end Control circuit: screw clamp terminals 2 14 mm² - cable stiffness: rigid Control circuit: screw clamp terminals 1 14 mm² - cable stiffness: rigid
	Power circuit: 5 N.m - on screw terminal - with screwdriver flat Ø 6 to Ø 8 mm Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2 Control circuit: 1.7 N.m - on screw clamp terminal - with screwdriver pozidriv No 2

Auxiliary Contacts Type	type mirror contact 1 NC conforming to IEC 60947-4-1 type mechanically linked 1 NO + 1 NC conforming to IEC 60947-5-1
Minimum Switching Voltage	17 V for control circuit
Minimum Switching Current	5 mA for control circuit
Insulation Resistance	> 10 MOhm for control circuit
Non-Overlap Time	1.5 ms on energisation between NC and NO contacts 1.5 ms on de-energisation between NC and NO contacts
Mounting Support	Rail Plate
Environment	
Standards	EN 60947-5-1 IEC 60947-5-1 EN 60947-4-1 CSA C22.2 No 14 IEC 60947-4-1
Product Certifications	LROS (Lloyds register of shipping) CCC RINA GL GOST DNV UL BV CSA
Ip Degree Of Protection	IP2X conforming to VDE 0106 IP2X conforming to IEC 60529
Protective Treatment	TH (pollution degree 3) conforming to IEC 60068-2-30
Climatic Withstand	conforming to IACS E10 exposure to damp heat
Operating Altitude	03000 m
Fire Resistance	850 °C conforming to IEC 60695-2-1
Flame Retardance	V1 conforming to UL 94
Mechanical Robustness	Shocks contactor closed (15 Gn for 11 ms) Vibrations contactor opened (2 Gn, 5300 Hz) Vibrations contactor closed (4 Gn, 5300 Hz) Shocks contactor opened (10 Gn for 11 ms)
Height	122 mm
Width	70 mm
Depth	118 mm
Net Weight	2.185 kg
Quantity Per Set	Set of 1
Packing Units	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	18.5 cm
Package 1 Width	14.5 cm
Package 1 Length	9 cm

Contractual warranty

2.182 kg

Package 1 Weight

Warranty

18 months



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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
⊘	Pvc Free

Certifications & Standards

Eu Rohs Directive	Compliant
	EU RoHS Declaration
China Rohs Regulation	China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information