Product data sheet

Main





Contactor, TeSys Deca, 4P(4NO),AC-3/AC-3e/, <=440V, 40A,110V AC 50/60Hz coil, screw clamp terminal

LC1D65004F7

! Discontinued on: 14/10/2011

! Discontinued

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	tional Voltage Power circuit: <= 690 V AC 25400 Hz	
[le] Rated Operational Current	ed Operational Current 80 A (at <60 °C) AC AC-1 for power circuit	
Jc] Control Circuit Voltage 110 V AC 50/60 Hz		

Complementary

10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to CSA
10 hp at 230/240 V AC 60 Hz for 1 phase motors conforming to UL
20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to CSA
20 hp at 200/208 V AC 60 Hz for 3 phases motors conforming to UL
20 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to CSA
20 hp at 230/240 V AC 60 Hz for 3 phases motors conforming to UL
5 hp at 115 V AC 60 Hz for 1 phase motors conforming to CSA
5 hp at 115 V AC 60 Hz for 1 phase motors conforming to UL
50 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to CSA
50 hp at 460/480 V AC 60 Hz for 3 phases motors conforming to UL
50 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to CSA
50 hp at 575/600 V AC 60 Hz for 3 phases motors conforming to UL
LC1D
4 NO
With
10 A (at 60 °C) for control circuit
80 A (at 60 °C) for power circuit
1000 A at 440 V for power circuit conforming to IEC 60947
140 A AC for control circuit conforming to IEC 60947-5-1
1000 A at 440 V for power circuit conforming to IEC 60947
10 A gG for control circuit conforming to IEC 60947-5-1
125 A gG at <= 690 V coordination type 2 for power circuit
160 A gG at <= 690 V coordination type 1 for power circuit
1 mOhm - Ith 80 A 50 Hz for power circuit
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[Ui] Rated Insulation Voltage	Control circuit: 600 V CSA certified Control circuit: 600 V UL certified Power circuit: 600 V CSA certified Power circuit: 600 V UL certified Control circuit: 690 V conforming to IEC 60947-1 Power circuit: 690 V conforming to IEC 60947-1
Overvoltage Category	III
[Uimp] Rated Impulse Withstand Voltage	8 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	6000000 cycles
Control Circuit Type	AC at 50/60 Hz standard
Coil Technology	Without built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.30.6 Uc (60 °C):drop-out AC 50/60 Hz 0.81.1 Uc (60 °C):operational AC 50 Hz 0.851.1 Uc (60 °C):operational AC 60 Hz
Inrush Power In Va	140 VA cos phi 0.75 (at 20 °C) 160 VA cos phi 0.75 (at 20 °C)
Hold-In Power Consumption In Va	13 VA 60 Hz cos phi 0.3 (at 20 °C) 15 VA 50 Hz cos phi 0.3 (at 20 °C)
Heat Dissipation	45 W at 50/60 Hz for control circuit
Operating Time	1226 ms closing 419 ms opening
Maximum Operating Rate	3600 cyc/h 60 °C
Connections - Terminals	Control circuit: screw clamp terminal 1 14 mm² - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 14 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminal 1 135 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 125 mm² - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 135 mm² - cable stiffness: solid without cable end
Tightening Torque	Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver Philips No 2 Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 6 mm Power circuit: 5 N.m - on screw clamp terminal - with screwdriver flat Ø 8 mm Control circuit: 1.2 N.m - on screw clamp terminal - with screwdriver pozidriv No 2
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	
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 de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts
Mounting Support	Rail Plate

Environment

Standards	IEC 60947-5-1
	EN 60947-4-1
	EN 60947-5-1
	UL 508
	IEC 60947-4-1
	CSA C22.2 No 14
Product Certifications	CCC
	BV
	DNV
	UL
	GL
	CSA
	LROS (Lloyds register of shipping)
	RINA
	GOST
	UKCA
Ip Degree Of Protection	IP2X conforming to IEC 60529
	IP2X conforming to VDE 0106
Protective Treatment	TH (pollution degree 3) conforming to IEC 60068
Permissible Ambient Air	-560 °C
Temperature Around The Device	-4070 °C at Uc
Operating Altitude	3000 m without derating
Fire Resistance	850 °C conforming to IEC 60695-2-1
Flame Retardance	V1 conforming to UL 94
Mechanical Robustness	Shocks contactor open (8 Gn for 11 ms)
	Shocks contactor closed (10 Gn for 11 ms)
	Vibrations contactor opened (2 Gn, 5300 Hz)
	Vibrations contactor closed (3 Gn, 5300 Hz)
Height	127 mm
Width	85 mm
Depth	130 mm
Net Weight	1.44 kg

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	15.2 cm
Package 1 Width	13.2 cm
Package 1 Length	10.8 cm
Package 1 Weight	1.472 kg
Unit Type Of Package 2	S02
Number Of Units In Package 2	5
Package 2 Height	15 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.815 kg

Contractual warranty

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

Reach Regulation	REACh Declaration
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	No need of specific recycling operations