# Product data sheet





### Contactor, TeSys Deca, 3P(3NO),AC-3/AC-3e/<=440V 65A,240V AC 50/60Hz coil, screw clamp terminals

LC1D65U7

#### Main

Range	TeSys	
Range Of Product	TeSys Deca	
Product Or Component Type	Contactor	
Device Short Name	LC1D	
Contactor Application	Resistive load	
Utilisation Category	AC-4 AC-1 AC-2 AC-3e AC-3	
Poles Description	3P	
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz	
[le] Rated Operational Current	65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit 65 A (at <140 °F (60 °C)) at 240 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at 240 V AC AC-1 for power circuit	
[Uc] Control Circuit Voltage	240 V AC 50/60 Hz	

#### Complementary

Motor Power Kw	11 kW at 400 V AC 50 Hz (AC-4)
	30 kW at 380400 V AC 50 Hz (AC-3)
	37 kW at 500 V AC 50 Hz (AC-3)
	37 kW at 660690 V AC 50 Hz (AC-3)
	18.5 kW at 220230 V AC 50 Hz (AC-3)
	30 kW at 415 V AC 50 Hz (AC-3)
	37 kW at 1000 V AC 50 Hz (AC-3)
	30 kW at 440 V AC 50 Hz (AC-3e)
	30 kW at 380400 V AC 50 Hz (AC-3e)
	37 kW at 500 V AC 50 Hz (AC-3e)
	37 kW at 660690 V AC 50 Hz (AC-3e)
	18.5 kW at 220230 V AC 50 Hz (AC-3e)
	30 kW at 415 V AC 50 Hz (AC-3e)
	37 kW at 1000 V AC 50 Hz (AC-3e)
	37 kW at 500 V AC 50 Hz
	30 kW at 380400 V AC 50 Hz
Motor Power Hp	10 hp at 230/240 V AC 60 Hz for 1 phase motors
	20 hp at 200/208 V AC 60 Hz for 3 phases motors
	20 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
	50 hp at 575/600 V AC 60 Hz for 3 phases motors
	5 hp at 115 V AC 60 Hz for 1 phase motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO
Protective Cover	With

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[Ith] Conventional Free Air	80 A (at 140 °F (60 °C)) for power circuit
Thermal Current	10 A (at 140 °F (60 °C)) for control circuit
Irms Rated Making Capacity	140 A at 440 V AC for control circuit conforming to IEC 60947-5-1
	140 A AC for control circuit conforming to IEC 60947-5-1
	1000 A at 440 V for power circuit conforming to IEC 60947
Rated Breaking Capacity	1000 kA at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	520 A 104 °F (40 °C) - 10 s for power circuit
Current	900 A 104 °F (40 °C) - 1 s for power circuit
Associated Fuse Rating	125 A gG at <= 690 V coordination type 2 for power circuit
	160 A gG at <= 690 V coordination type 1 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
	10 A go for control circuit comorning to 120 00347-5-1
Average Impedance	1.5 Ohm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	6.4 W AC-4
	4.2 W AC-3e
	6.3 W AC-3 9.6 W AC-1
	9.0 W AC-1
[Ui] Rated Insulation Voltage	Control circuit 600 V UL
	Power circuit 600 V CSA
	Power circuit 600 V UL IEC 60947-1
	Control circuit 690 V IEC 60947-1
	Power circuit 690 V CSA IEC 60947-1 Control circuit 600 V CSA
	Control Circuit 600 V CGA
Overvoltage Category	III
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947
Safety Reliability Level	B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical Durability	6000000 cycles
Control Circuit Type	AC 50/60 Hz
Coil Technology	Without built-in
Control Circuit Voltage Limits	0.81.1 Uc -40140 °F (-4060 °C) operational AC 50 Hz
-	0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz
	11.1 Uc 140158 °F (6070 °C) operational AC 50/60 Hz
	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz
Inrush Power In Va	160 VA cos phi 0.75 (at 68 °F (20 °C))
	140 VA cos phi 0.75 (at 68 °F (20 °C))
Hold-In Power Consumption In Va	15 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
,	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat Dissipation	45 W at 50/60 Hz for control circuit
	T VV at 30/00 FIZ IOI CONTION CITCUIT
Operating Time	1226 ms closing
	419 ms opening
Maximum Operating Rate	3600 cyc/mn 140 °F (60 °C)

Connections - Terminals	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness: rigid without cable end	
	Control circuit: screw clamp terminals 1 0.000.01 in² (14 mm²) - cable stiffness:	
	flexible without cable end  Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:	
	flexible without cable end	
	Control circuit: screw clamp terminals 1 0.000.00 in² (12.5 mm²) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 2 0.000.00 in² (12.5 mm²) - cable stiffness:	
	flexible with cable end Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness: rigid	
	Power circuit: screw terminals 2 0.000.02 in² (2.516 mm²) - cable stiffness: rigid without cable end	
	Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness: flexible without cable end	
	Power circuit: screw terminals 2 0.000.02 in² (2.516 mm²) - cable stiffness:	
	flexible without cable end Power circuit: screw terminals 1 0.000.04 in² (2.525 mm²) - cable stiffness:	
	flexible with cable end	
	Power circuit: screw terminals 2 0.000.02 in <sup>2</sup> (2.510 mm <sup>2</sup> ) - cable stiffness: flexible with cable end	
	Control circuit: screw clamp terminals 2 0.000.01 in² (14 mm²) - cable stiffness:	
	rigid  Control circuit: screw clamp terminals 1 0.00…0.01 in² (1…4 mm²) - cable stiffness:	
	rigid	
Tightening Torque	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal Phillips No 2	
	Power circuit 44.25 lbf.in (5 N.m) screw terminal flat Ø 6 to Ø 8 mm Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal pozidriv No 2	
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminal flat Ø 6 mm	
Auxiliary Contact Composition	1 NO + 1 NC	
Auxiliary Contacts Type	Mirror contact 1 NC IEC 60947-4-1 Mechanically linked 1 NO + 1 NC 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	Plate Rail	
Environment		
Standards	EN 60947-4-1 CSA C22.2 No 14	
	IEC 60947-4-1	
	EN 60947-5-1 UL 508	
Product Certifications	DNV	
Toduct Certifications	UL	
	RINA	
	CCC CSA	
	LROS (Lloyds register of shipping)	
	BV	
	GL UKCA	
lp Degree Of Protection	IP2X VDE 0106	
	IP2X IEC 60529	
Protective Treatment	TH 3)IEC 60068-2-30	
Climatic Withstand	IACS E10 exposure to damp heat	
Operating Altitude	03000 m	
Fire Resistance	1562 °F (850 °C) IEC 60695-2-1	
Flame Retardance	V1 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	4.80 in (122 mm)
Width	2.76 in (70 mm)
Depth	4.65 in (118 mm)
Net Weight	4.82 lb(US) (2.185 kg)
Quantity Per Set	Set of 10

## **Packing Units**

•		
Unit Type Of Package 1	PCE	
Number Of Units In Package 1	1	
Package 1 Height	5.51 in (14.000 cm)	
Package 1 Width	5.20 in (13.200 cm)	
Package 1 Length	3.74 in (9.500 cm)	
Package 1 Weight	3.16 lb(US) (1.433 kg)	
Unit Type Of Package 2	S02	
Number Of Units In Package 2	5	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	16.44 lb(US) (7.459 kg)	

# **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

<b>②</b>	Reach Free Of Svhc	
<b>⊘</b>	Toxic Heavy Metal Free	
<b>⊘</b>	Mercury Free	
<b>⊘</b>	Rohs Exemption Information Yes	
<b>Ø</b>	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