# Product data sheet

Specifications





# Reversing Contactor, TeSys Deca, 3P(3NO), AC-3, IEC, <=440V, 50A, 120V AC 60Hz coil

LC2D50G7

Product availability: Stock - Normally stocked in distribution facility

#### Price\*: 991.44 USD

#### Main

Range of Product	TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
contactor application	Motor control
Itilisation category AC-2	
	AC-3
	AC-4
Control circuit type	AC
Coil type	Standard
poles description	3P
Pole contact composition	3 NO
[le] rated operational current	Power circuit 50 A AC AC-3 140 °F (60 °C))
Motor power kW	15 kW 220240 V AC 50/60 Hz
	22 kW 380400 V AC 50/60 Hz
	25 kW 415 V AC 50/60 Hz
	30 kW 440 V AC 50/60 Hz
	30 kW 500 V AC 50/60 Hz
	33 kW 660690 V AC 50/60 Hz
[Uc] control circuit voltage	120 V AC 60 Hz
Connections - terminals	Control circuit 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> )flexible with cable end
	Control circuit 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> )flexible without cable end
	Control circuit 1 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> )solid without cable end
	Control circuit 2 0.0020.004 in <sup>2</sup> (12.5 mm <sup>2</sup> )flexible with cable end
	Control circuit 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> )flexible without cable end
	Control circuit 2 0.0020.006 in <sup>2</sup> (14 mm <sup>2</sup> )solid without cable end
	Power circuit 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> )flexible with cable end
	Power circuit 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> )flexible without cable end
	Power circuit 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> )solid without cable end
	Power circuit 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> )flexible with cable end
	Power circuit 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> )flexible without cable end
	Power circuit 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> )solid without cable end
	Power circuit 2 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> )flexible with cable end
	Power circuit 2 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> )flexible without cable end
	Power circuit 2 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> )solid without cable end

#### Complementary

Assembly style	Ready assembled	
Coil technology	Without built-in bidirectional peak limiting diode suppressor	
Protective cover	With	
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1	

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

auxiliary contact composition	1 NO + 1 NC
Interlocking type	Mechanical
Control circuit voltage limits	Drop-out: 0.30.6 Uc at 50/60 Hz (at <140 °F (60 °C)) Operational: 0.81.1 Uc at 50 Hz (at <140 °F (60 °C)) Operational: 0.851.1 Uc at 60 Hz (at <140 °F (60 °C))
[Ui] rated insulation voltage	Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-1 Power circuit 690 V IEC 60947-1
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
Overvoltage category	Ш
Mounting Support	Plate Rail
Flame retardance	V1 conforming to UL 94
Tightening torque	Control circuit 15.05 lbf.in (1.7 N.m) 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) Philips No 2 Power circuit 44.25 lbf.in (5 N.m) 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> ) hexagonal Power circuit 70.81 lbf.in (8 N.m) 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> ) hexagonal
[Ue] rated operational voltage	Power circuit <= 1000 V AC 25400 Hz
[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for control circuit 80 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	140 A AC for control circuit conforming to IEC 60947-5-1 900 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	900 A at 440 V for power circuit conforming to IEC 60947
Associated fuse rating	10 A gG for control circuit conforming to IEC 60947-5-1 100 A gG at <= 690 V coordination type 1 for power circuit 100 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	- Ith 80 A 50 Hz for power circuit
Power dissipation per pole	3.7 W AC-3 - Ith 80 A
Inrush power in VA	200 VA cos phi 0.75 (at 68 °F (20 °C)) 220 VA cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	20 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 22 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 26 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C)) 26 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Operating time	1226 ms closing 419 ms opening
Safety reliability level	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
Mechanical durability	6000000 cycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Minimum switching current	5 mA for control circuit
Minimum switching voltage	17 V for control circuit
Non-overlap time	<ul><li>1.5 ms on de-energisation between NC and NO contacts</li><li>1.5 ms on energisation between NC and NO contacts</li></ul>
Insulation resistance	> 10 MOhm for control circuit
Height	5.2 in (132 mm)
Width	6.5 in (165 mm)

Depth	5.6 in (142 mm)	
Net Weight	5.3 lb(US) (2.4 kg)	
Environment		
Standards	IEC 60947-4-1	
otandardo	CSA C22.2 No 14	
	UL 508	
	IEC 60947-5-1	
	EN 60947-4-1	
	EN 60947-5-1	

Product Certifications	GL UL RINA GOST CSA LROS (Lloyds register of shipping) CCC DNV BV UKCA
IP degree of protection	IP2X IEC 60529 IP2X VDE 0106
Protective treatment	TH 3)IEC 60068
Ambient Air Temperature for Operation	23140 °F (-560 °C)
Ambient Air Temperature for Storage	-76176 °F (-6080 °C)
Permissible ambient air temperature around the device	-40…158 °F (-40…70 °C) at Uc
Operating altitude	9842.52 ft (3000 m) without derating
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Shock resistance	10 gn contactor closed 8 gn contactor opened
Vibration resistance	2 gn 5300 Hz contactor opened 3 gn 5300 Hz contactor closed
Heat dissipation	610 W at 50/60 Hz for control circuit

## Ordering and shipping details

Category	US10I1222357	
Discount Schedule	0112	
GTIN	3389110456677	
Returnability	Yes	
Country of origin	US	

#### **Packing Units**

V	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.7 in (17.0 cm)
Package 1 Width	7.09 in (18.0 cm)
Package 1 Length	9.8 in (24.8 cm)
Package 1 Weight	7.242 lb(US) (3.285 kg)

#### **Contractual warranty**

Warranty

18 months

### Sustainability Screen Premium

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Guide to assess a product's sustainability >



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
California Proposition 65	WARNING: This product can expose you to chemicals including: Antimony oxide & Antimony trioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov