Specifications





# IEC contactor, TeSys Deca, nonreversing, 80A, 60HP at 480VAC, 3 phase, 3 pole, 3 NO, 110VAC 50/60Hz coil, open style

LC1D806F7

Product availability: Non-Stock - Not normally stocked in distribution facility

### Price\*: 363.00 USD

### 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-3 AC-3e AC-4 AC-1
poles description	3P
[Ue] rated operational voltage	Power circuit <= 300 V DC 25400 Hz Power circuit <= 690 V AC
[le] rated operational current	125 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 80 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
[Uc] control circuit voltage	110 V AC 50/60 Hz

## Complementary

Motor power kW	22 kW at 220230 V AC 50/60 Hz (AC-3)
	37 kW at 380400 V AC 50/60 Hz (AC-3)
	45 kW at 415440 V AC 50/60 Hz (AC-3)
	55 kW at 500 V AC 50/60 Hz (AC-3)
	45 kW at 660690 V AC 50/60 Hz (AC-3)
	15 kW at 400 V AC 50/60 Hz (AC-4)
	22 kW at 220230 V AC 50/60 Hz (AC-3e)
	37 kW at 380400 V AC 50/60 Hz (AC-3e)
	45 kW at 415440 V AC 50/60 Hz (AC-3e)
	55 kW at 500 V AC 50/60 Hz (AC-3e)
	45 kW at 660690 V AC 50/60 Hz (AC-3e)
Maximum Horse Power Rating	7.5 hp at 120 V AC 50/60 Hz for 1 phase motors
	15 hp at 230/240 V AC 50/60 Hz for 1 phase motors
	30 hp at 200/208 V AC 50/60 Hz for 3 phase motors
	30 hp at 230/240 V AC 50/60 Hz for 3 phase motors
	60 hp at 460/480 V AC 50/60 Hz for 3 phase motors
	60 hp at 575/600 V AC 50/60 Hz for 3 phase motors
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With

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

[Ith] conventional free air thermal current	10 A (at 140 °F (60 °C)) for signalling circuit 125 A (at 140 °F (60 °C)) for power circuit
Irms rated making capacity	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 1100 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1100 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	640 A 104 °F (40 °C) - 10 s for power circuit 990 A 104 °F (40 °C) - 1 s for power circuit 135 A 104 °F (40 °C) - 10 min for power circuit 320 A 104 °F (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 60947-5-1 200 A gG at <= 690 V coordination type 1 for power circuit 160 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.8 mOhm - Ith 125 A 50 Hz for power circuit
Power dissipation per pole	5.1 W AC-3 12.5 W AC-1 5.1 W AC-3e
[Ui] rated insulation voltage	Power circuit 600 V CSA Power circuit 600 V UL Power circuit 1000 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1 Signalling circuit 600 V CSA Signalling circuit 600 V UL
Overvoltage category III	
Pollution degree	3
[Uimp] rated impulse withstand voltage	8 kV IEC 60947
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	4 Mcycles
Electrical durability	0.8 Mcycles 125 A AC-1 <= 440 V 1.5 Mcycles 80 A AC-3 <= 440 V 1.5 Mcycles 80 A AC-3e <= 440 V
Control circuit type	AC 50/60 Hz
Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.851.1 Uc -40131 °F (-4055 °C) operational AC 60 Hz 0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 0.81.1 Uc -40131 °F (-4055 °C) operational AC 50 Hz 11.1 Uc 131158 °F (5570 °C) operational AC 50/60 Hz
Inrush power in VA	245 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 245 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	26 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))
Heat dissipation	610 W at 50/60 Hz
Operating time	2035 ms closing 620 ms opening
Maximum operating rate	3600 cyc/h 140 °F (60 °C)
Maximum operating rate	3600 cyc/h at 60 °C
Connections - terminals	Control circuit: lugs-ring terminals - external diameter: 0.3 in (8 mm) Power circuit: bars 1 - busbar cross section: 3 x 16 mm Power circuit: lugs-ring terminals - external diameter: 0.7 in (17 mm)

Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals flat Ø 6 mm M3.5	
0 0 1	Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals Philips No 2 M3.5	
	Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals flat Ø 8 mm M6	
	Power circuit 44.3 lbf.in (5 N.m) lugs-ring terminals hexagonal 0.4 in (10 mm) M6	
	Power circuit 44.3 lbf.in (5 N.m) bars flat Ø 8 mm M6	
	Power circuit 44.3 lbf.in (5 N.m) bars hexagonal 0.4 in (10 mm) M6	
	Control circuit 10.6 lbf.in (1.2 N.m) lugs-ring terminals pozidriv No 2 M3.5	
uxiliary contact composition 1 NO + 1 NC		
Auxiliary contacts type	Mechanically linked 1 NO + 1 NC IEC 60947-5-1	
	Mirror contact 1 NC IEC 60947-4-1	
Signalling circuit frequency	25400 Hz	
Minimum switching voltage	17 V for signalling circuit	
Minimum switching current	5 mA for signalling circuit	
Insulation resistance	> 10 MOhm for signalling circuit	
Non-overlap time	1.5 ms on de-energisation between NC and NO contact	
	1.5 ms on energisation between NC and NO contact	
Mounting Support	Plate	
	Rail	

## Environment

Standards	EN 60947-4-1 EN 60947-5-1 IEC 60947-4-1 IEC 60947-5-1 CSA C22.2 No 14 UL 60947-4-1 IEC 60335-2-40:Annex JJ UL 60335-2-40:Annex JJ IEC 60335-1:Clause 30.2	
Product Certifications	CCC UL CB Scheme CSA CE UKCA Marine EAC	
P degree of protection IP20 front face IEC 60529		
Protective treatment	THIEC 60068-2-30	
Climatic withstand IACS E10 exposure to damp heat		
Permissible ambient air temperature around the device	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °C) with derating	
Operating altitude	09842.52 ft (03000 m)	
Fire resistance	1562 °F (850 °C) IEC 60695-2-1	
Flame retardance	V1 conforming to UL 94	
Mechanical robustness	Vibrations contactor open 2 Gn, 5300 Hz) Shocks contactor open 8 Gn for 11 ms) Vibrations contactor closed 3 Gn, 5300 Hz) Shocks contactor closed 10 Gn for 11 ms)	
Height	5.000000000 in (127 mm)	
Width	3.3 in (85 mm)	
Depth	5.1 in (130 mm)	
Net Weight	3.51 lb(US) (1.59 kg)	

# Ordering and shipping details

Category	US10I1222359	
Discount Schedule	0112	
GTIN	3389110298239	
Returnability	No	
Country of origin	CZ	

# **Packing Units**

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Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.3 in (11.0 cm)
Package 1 Width	6.3 in (16.0 cm)
Package 1 Length	6.4 in (16.3 cm)
Package 1 Weight	3.5 lb(US) (1.6 kg)

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >



Sustainable Packaging Transparency RoHS/REACh

#### **Resource performance**

Sustainable Packaging

### Well-being performance

Reach Free Of Svhc	
Toxic Heavy Metal Free	
Mercury Free	
Rohs Exemption Information Ye	25
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

#### Offer Marketing Illustration

#### **Product benefits / Features**

