Product data sheet

Specification





TeSys Deca IEC contactor, 12 A, 3 P, 7.5 HP at 480 VAC, reversing, 120 VAC 50/60 Hz coil

LC2D12G7

Product availability: Stock - Normally stocked in distribution facility

Price*: 364.20 USD

Main

Range	TeSys TeSys Deca
Product Name	TeSys Deca TeSys Deca
Product Or Component Type	Reversing contactor
Device Short Name	LC2D
Contactor Application	Resistive load Motor control
Utilisation Category	AC-3 AC-1 AC-3e
Device Presentation	Preassembled with reversing power busbar
Poles Description	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz Power circuit <= 300 V DC
[le] Rated Operational Current	25 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 12 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Motor Power Kw	3 kW at 220230 V AC 50 Hz 5.5 kW at 380400 V AC 50 Hz 5.5 kW at 415 V AC 50 Hz 5.5 kW at 440 V AC 50 Hz 7.5 kW at 500 V AC 50 Hz 7.5 kW at 660690 V AC 50 Hz
Motor Power Hp (UI / Csa)	1 hp at 115 V AC 60 Hz for 1 phase motors 2 hp at 230/240 V AC 60 Hz for 1 phase motors 3 hp at 200/208 V AC 60 Hz for 3 phase motors 3 hp at 230/240 V AC 60 Hz for 3 phase motors 7.5 hp at 460/480 V AC 60 Hz for 3 phase motors 10 hp at 575/600 V AC 60 Hz for 3 phase motors
Control Circuit Type	AC 50/60 Hz
[Uc] Control Circuit Voltage	120 V AC 50/60 Hz
Auxiliary Contact Composition	1 NO + 1 NC
[Uimp] Rated Impulse Withstand Voltage	6 kV IEC 60947
Overvoltage Category	III
[Ith] Conventional Free Air Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit 25 A (at 140 °F (60 °C)) for power circuit

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

Irms Rated Making Capacity	250 A at 440 V for power circuit conforming to IEC 60947
	140 A AC for signalling circuit conforming to IEC 60947-5-1
	250 A DC for signalling circuit conforming to IEC 60947-5-1
Rated Breaking Capacity	250 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	30 A 104 °F (40 °C) - 10 min for power circuit
Current	61 A 104 °F (40 °C) - 1 min for power circuit
	105 A 104 °F (40 °C) - 10 s for power circuit
	210 A 104 °F (40 °C) - 10 s 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
	40 A gG at <= 690 V coordination type 1 for power circuit
	25 A gG at <= 690 V coordination type 2 for power circuit
Average Impedance	2.5 mOhm - Ith 25 A 50 Hz for power circuit
[Hi] Poted Insulation Voltage	Daving sign # 000 M IFO 000 47 4 4
[Ui] Rated Insulation Voltage	Power circuit 690 V IEC 60947-4-1
	Power circuit 600 V CSA
	Power circuit 600 V UL
	Signalling circuit 690 V IEC 60947-1
	Signalling circuit 600 V CSA
	Signalling circuit 600 V UL
Electrical Durability	2 Mcycles 12 A AC-3 <= 440 V
•	0.8 Mcycles 25 A AC-1 <= 440 V
	2 Mcycles 12 A AC-3e <= 440 V
Power Dissipation Per Pole	1.56 W AC-1
·	0.36 W AC-3
	0.36 W AC-3e
Front Cover	With
Interlocking Type	Mechanical
Mounting Support	Rail
mounting cappert	Plate
Standards	CSA C22.2 No 14
	EN 60947-4-1
	EN 60947-5-1
	IEC 60947-4-1
	IEC 60947-5-1
	UL 508
	IEC 60335-1
	IEC 60333-1
Product Certifications	DNV
	CSA
	CCC
	UL
	GL
	LROS (Lloyds register of shipping)
	BV
	RINA
	GOST
	UKCA

Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without cable end
Power circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without cable end
Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable end
Power circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable end
Power circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid
Power circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid
Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without cable end
Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable end
Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid
Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid
Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2
Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2
1222 ms closing
419 ms opening
B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
15 Mcycles

Complementary

Coil Technology	Without built-in suppressor module
Control Circuit Voltage Limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 50/60 Hz 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
Inrush Power In Va	70 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C)) 70 VA 50 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-In Power Consumption In Va	7.5 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C)) 7 VA 50 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat Dissipation	23 W 50/60 Hz
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 Current	5 mA for signalling circuit
Minimum Switching Voltage	17 V 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
Insulation Resistance	> 10 MOhm for signalling circuit

Environment

Ip Degree Of Protection	IP20 front face IEC 60529
Climatic Withstand	IACS E10 IEC 60947-1 Annex Q category D
Protective Treatment	TH IEC 60068-2-30

Pollution Degree	3
Ambient Air Temperature For Operation	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
Ambient Air Temperature For Storage	-76176 °F (-6080 °C)
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 open2 Gn, 5300 Hz Vibrations contactor closed4 Gn, 5300 Hz Shocks contactor open10 Gn for 11 ms Shocks contactor closed15 Gn for 11 ms
Height	3.03 in (77 mm)
Width	3.54 in (90 mm)
Depth	3.39 in (86 mm)
Net Weight	1.54 lb(US) (0.697 kg)

Ordering and shipping details

Category	US10l1222354
Discount Schedule	0112
Gtin	3389110385885
Returnability	Yes
Country Of Origin	FR

Packing Units

ype Of Package 1 PCE	
er Of Units In Package 1 1	
ge 1 Height 3.70	0 in (9.398 cm)
ge 1 Width 4.40) in (11.176 cm)
ge 1 Length 5.40) in (13.716 cm)
ge 1 Weight 28.6	64 oz (811.93 g)
ype Of Package 2 S02	
er Of Units In Package 2 6	
ge 2 Height 5.91	in (15.0 cm)
ge 2 Width 11.8	31 in (30.0 cm)
ge 2 Length 15.7	75 in (40.0 cm)
ge 2 Weight 11.6	S1 lb(US) (5.267 kg)
ype Of Package 3 P06	
er Of Units In Package 3 96	
ge 3 Height 30.3	31 in (77.0 cm)
ge 3 Width 31.5	50 in (80.0 cm)
ge 3 Length 23.6	32 in (60.0 cm)
ge 3 Weight 204.	.53 lb(US) (92.772 kg)
er Of Units In Package 3 96 ge 3 Height 30.3 ge 3 Width 31.5 ge 3 Length 23.6	31 in (77.0 cm) 50 in (80.0 cm) 52 in (60.0 cm)

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM **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-CO₂ 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 >





Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
②	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
②	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	End of Life Information
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