Product data sheet

Specification





TeSys Deca reversing contactor - 3P(3 NO) - AC-3 - <= 440 V 40 A - coil 120 V AC 60 Hz

LC2D40AG7

Product availability: Stock - Normally stocked in distribution facility

Price*: 667.08 USD

Main

Range	TeSys TeSys Deca
Product name	TeSys D TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
contactor application	Motor control Resistive load
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	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Motor power kW	11 kW at 220230 V AC 50-60 Hz 18.5 kW at 380400 V AC 50-60 Hz 22 kW at 415 V AC 50-60 Hz 22 kW at 440 V AC 50-60 Hz 22 kW at 500 V AC 50-60 Hz 30 kW at 660690 V AC 50-60 Hz
motor power HP (UL / CSA)	5 hp at 230/240 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 3 phase motors 30 hp at 575/600 V AC 60 Hz for 3 phase motors 10 hp at 200/208 V AC 60 Hz for 3 phase motors 3 hp at 115 V AC 60 Hz for 1 phase motors 30 hp at 460/480 V AC 60 Hz for 3 phase motors
Control circuit type	AC 60 Hz
[Uc] control circuit voltage	120 V AC 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 60 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.

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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
	800 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	800 A at 440 V for power circuit conforming to IEC 60947
[lcw] rated short-time withstand	72 A 104 °F (40 °C) - 10 min for power circuit
current	165 A 104 °F (40 °C) - 1 min for power circuit
	320 A 104 °F (40 °C) - 10 s for power circuit
	720 A 104 °F (40 °C) - 1 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
_	80 A gG at <= 690 V coordination type 1 for power circuit
	80 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	1.5 mOhm - Ith 60 A 50 Hz for power circuit
[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	1.5 Mcycles 40 A AC-3 <= 440 V
	1.4 Mcycles 60 A AC-1 <= 440 V
	1.5 Mcycles 40 A AC-3e <= 440 V
Power dissipation per pole	2.4 W AC-3
	5.4 W AC-1
	2.4 W AC-3e
Front cover	With
Interlocking type	Mechanical
Mounting Support	Plate
	Rail
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
Product Certifications	UL
	CSA
	RINA
	GOST
	CCC
	DNV
	LROS (Lloyds register of shipping)
	GL
	BV
	UKCA

Connections - terminals	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without cable end		
	Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)flexible without cable end		
	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.0020.004 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 EverLink BTR screw connectors 1 0.000.05 in² (135 mm²)flexible without cable end Power circuit EverLink BTR screw connectors 2 0.000.04 in² (125 mm²)flexible without cable end Power circuit EverLink BTR screw connectors 1 0.000.05 in² (135 mm²)flexible with cable end
	Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)flexible with cable end		
	Power circuit EverLink BTR screw connectors 1 0.000.05 in ² (135 mm ²)solid		
	Power circuit EverLink BTR screw connectors 2 0.000.04 in² (125 mm²)solid		
Tightening torque	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		
	Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ² (25 35 mm ²) hexagonal 0.2 in (4 mm)		
	Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in ² (1 25 mm ²) hexagonal 0.2 in (4 mm)		
	Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2		
	Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2		
Operating time	419 ms opening		
	1226 ms closing		
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	6 Mcycles		
Maximum operating rate	3600 cyc/h 140 °F (60 °C)		

Complementary

Coil technology	Without built-in suppressor module
Control circuit voltage limits	0.30.6 Uc -40158 °F (-4070 °C) drop-out AC 60 Hz 0.851.1 Uc -40140 °F (-4060 °C) operational AC 60 Hz 11.1 Uc 140158 °F (6070 °C) operational AC 60 Hz
Inrush power in VA	140 VA 60 Hz cos phi 0.75 (at 68 °F (20 °C))
Hold-in power consumption in VA	13 VA 60 Hz cos phi 0.3 (at 68 °F (20 °C))
Heat dissipation	45 W 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	4.8 in (122 mm)
Width	4.7 in (119 mm)
Depth	4.7 in (120 mm)
Net Weight	4.12 lb(US) (1.87 kg)

Ordering and shipping details

Category	US10I1222357
Discount Schedule	0112
GTIN	3389119409513
Returnability	Yes
Country of origin	MX

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 in (14 cm)
Package 1 Width	6.4 in (16.2 cm)
Package 1 Length	7.6 in (19.3 cm)
Package 1 Weight	4.62 lb(US) (2.094 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	4
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	19.52 lb(US) (8.855 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	32
Package 3 Height	30.3 in (77 cm)
Package 3 Width	31.5 in (80 cm)
Package 3 Length	23.6 in (60 cm)
Package 3 Weight	179.04 lb(US) (81.212 kg)

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.

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Transparency RoHS/REACh

Well-being performance

⊘	Reach Free Of Svhc
⊘	Toxic Heavy Metal Free
⊘	Mercury Free
⊘	Rohs Exemption Information Yes
Ø	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