Product data sheet

Specification





TeSys Deca reversing contactor - 3P - <= 440 V - 12 A AC-3 - 24...60 V AC/DC coil

LC2D12BNE

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

Price*: 141.00 USD

Main

Range	TeSys TeSys Deca
Product name	Tesys Deca green TeSys Deca
Product or Component Type	Reversing contactor
Device short name	LC2D
contactor application	Motor control Resistive load
Utilisation category	AC-1 AC-3
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
[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
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 (UL / CSA)	0.5 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 AC/DC electronic DC AC/DC electronic
[Uc] control circuit voltage	2460 V AC 50/60 Hz 2460 V DC
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	105 A 104 °F (40 °C) - 10 s for power circuit
current	210 A 104 °F (40 °C) - 1 s for power circuit
	30 A 104 °F (40 °C) - 10 min for power circuit
	61 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
	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
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1
	Signalling circuit 690 V IEC 60947-1
Electrical durability	2.3 Mcycles 11 A AC-3 <= 440 V
	0.8 Mcycles 25 A AC-1 <= 440 V
Power dissipation per pole	1.56 W AC-1
	0.36 W AC-3
Front cover	With
Interlocking type	Mechanical
Mounting Support	Plate
	Rail
Standards	EN/IEC 60947-4-1
	EN/IEC 60947-5-1
	UL 60947-4-1 CSA C22.2 No 60947-4-1
	IEC 60335-1
Product certifications	CCC
	CSA
	EAC
	UL
	KC
	DNV-GL
	LROS (Lloyds register of shipping) UKCA
Connections - terminals	Power circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible without
	cable end
	Power circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)flexible without cable end
	Power circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)flexible with cable end
	Power circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with
	cable end
	Power circuit screw clamp terminals 1 0.0020.006 in ² (14 mm ²)solid Power circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)solid
	Control circuit screw clamp terminals 1 0.0020.006 in (14 mm²)flexible without
	cable end
	Control circuit screw clamp terminals 2 0.0020.006 in ² (14 mm ²)flexible without cable end
	Control circuit screw clamp terminals 1 0.0020.006 in ² (14 mm ²)flexible with cable end
	Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with
	cable end Control circuit corous clamp terminals 1,0,002, 0,006 in² (1, 4, mm²) colid
	Control circuit screw clamp terminals 1 0.0020.006 in² (14 mm²)solid Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid
	Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm
5	Power circuit 15.05 lbf.in (1.7 N.m) sciew clamp terminals liat \$6.0 min 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

Operating time	4555 ms closing 2090 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	15 Mcycles
Maximum operating rate	3600 cyc/h 140 °F (60 °C)

Complementary

Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc -40158 °F (-4070 °C) drop-out AC/DC 0.851.1 Uc -40140 °F (-4060 °C) operational AC 0.81.1 Uc -40140 °F (-4060 °C) operational DC 11.1 Uc 140158 °F (6070 °C) operational AC/DC
Inrush power in VA	15 VA 50/60 Hz 68 °F (20 °C))
Inrush power in W	14 W 68 °F (20 °C)
Hold-in power consumption in VA	0.9 VA 68 °F (20 °C)) 50/60 Hz
Hold-in power consumption in W	0.6 W 68 °F (20 °C)
Heat dissipation	0.6 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

LIMITOTITIETIL	
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	3.5 in (90 mm)
Depth	3.4 in (86 mm)
Net Weight	1.75 lb(US) (0.793 kg)

color Gray SE GREY 6)
Green SE GREEN 2)

Ordering and shipping details

Category	US10l1222356
Discount Schedule	0112
GTIN	3606480987878
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.5 in (11.5 cm)
Package 1 Width	3.7 in (9.4 cm)
Package 1 Length	5.4 in (13.8 cm)
Package 1 Weight	31.1 oz (882.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	6
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	12.467 lb(US) (5.655 kg)

Contractual warranty

Warranty 18 months



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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
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