Product data sheet

Specifications

TeSys Deca reversing contactor - 3P - <= 440 V - 25 A AC-3 - 48...130 V AC/DC coil

LC2D25EHE

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

Price*: 209.00 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 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 25...400 Hz
[Ie] rated operational current	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 25 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Motor power kW	5.5 kW at 220...230 V AC 50 Hz 11 kW at 380...400 V AC 50 Hz 11 kW at 415 V AC 50 Hz 11 kW at 440 V AC 50 Hz 15 kW at 500 V AC 50 Hz 15 kW at 660...690 V AC 50 Hz
motor power HP (UL / CSA)	2 hp at 115 V AC 60 Hz for 1 phase motors 3 hp at 230/240 V AC 60 Hz for 1 phase motors 7.5 hp at 200/208 V AC 60 Hz for 3 phase motors 7.5 hp at 230/240 V AC 60 Hz for 3 phase motors 15 hp at 460/480 V AC 60 Hz for 3 phase motors 20 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	48...130 V AC 50/60 Hz 48...130 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 40 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	140 A AC for signalling circuit conforming to IEC 60947-5-1 250 A DC for signalling circuit conforming to IEC 60947-5-1 450 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	450 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	50 A 104 °F (40 °C) - 10 min for power circuit 120 A 104 °F (40 °C) - 1 min for power circuit 240 A 104 °F (40 °C) - 10 s for power circuit 380 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 63 A gG at <= 690 V coordination type 1 for power circuit 40 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	2 mOhm - Ith 40 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 Mcycles 21 A AC-3 <= 440 V 0.9 Mcycles 40 A AC-1 <= 440 V 2 Mcycles 21 A AC-3e <= 440 V
Power dissipation per pole	3.2 W AC-1 1.25 W AC-3 1.25 W AC-3e
Front cover	With
Interlocking type	Mechanical
Mounting Support	Rail Plate
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	Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)flexible with cable end Control circuit screw clamp terminals 2 0.002…0.004 in² (1…2.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.002…0.006 in² (1…4 mm²)solid Control circuit screw clamp terminals 2 0.002…0.006 in² (1…4 mm²)solid Power circuit screw clamp terminals 1 0.004…0.02 in² (2.5…10 mm²)flexible without cable end Power circuit screw clamp terminals 2 0.004…0.02 in² (2.5…10 mm²)flexible without cable end Power circuit screw clamp terminals 1 0.002…0.02 in² (1…10 mm²)flexible with cable end Power circuit screw clamp terminals 2 0.002…0.009 in² (1.5…6 mm²)flexible with cable end Power circuit screw clamp terminals 1 0.002…0.02 in² (1.5…10 mm²)solid Power circuit screw clamp terminals 2 0.004…0.02 in² (2.5…10 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 22.1 lbf.in (2.5 N.m) screw clamp terminals flat Ø 6 mm Power circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals Philips No 2 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Control circuit 22.1 lbf.in (2.5 N.m) screw clamp terminals pozidriv No 2

Operating time	45...55 ms closing 20...90 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 -40…158 °F (-40…70 °C) drop-out AC/DC 0.85...1.1 Uc -40…140 °F (-40…60 °C) operational AC/DC 1...1.1 Uc 140…158 °F (60…70 °C) operational AC/DC
Inrush power in VA	25 VA 50/60 Hz 68 °F (20 °C))
Inrush power in W	24 W 68 °F (20 °C)
Hold-in power consumption in VA	1.3 VA 68 °F (20 °C)) 50/60 Hz
Hold-in power consumption in W	0.8 W 68 °F (20 °C)
Heat dissipation	0.8 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	25...400 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	-40…140 °F (-40…60 °C) 140…158 °F (60…70 °C) with derating
Ambient Air Temperature for Storage	-76…176 °F (-60…80 °C)
Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open2 Gn, 5...300 Hz Vibrations contactor closed4 Gn, 5...300 Hz Shocks contactor closed15 Gn for 11 ms Shocks contactor open8 Gn for 11 ms
Height	3.3 in (85 mm)
Width	3.5 in (90 mm)
Depth	3.6 in (92 mm)
Net Weight	2.013 lb(US) (0.913 kg)

color	Gray SE GREY 6) Green SE GREEN 2)

Ordering and shipping details

Category	US10I1222356
Discount Schedule	0I12
GTIN	3606480988004
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.5 in (14.0 cm)
Package 1 Width	4.4 in (11.2 cm)
Package 1 Length	4.5 in (11.5 cm)
Package 1 Weight	2.238 lb(US) (1.015 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	5
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	11.673 lb(US) (5.295 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 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

Mercury Free	
Rohs Exemption Information	Yes
Halogen Free Plastic Parts & Cables Product	

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