# **Product data sheet**

Specification





TeSys Deca reversing contactor - 3P - <= 440 V - 9 A AC-3 - 48...130 V AC/DC coil

LC2D09EHE

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



#### Main

Range	TeSys
	TeSys Deca
Product Name	Tesys Deca green TeSys Deca
Product Or Component Type	Reversing contactor
Device Short Name	LC2D
Contactor Application	Resistive load Motor control
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 25400 Hz
[le] Rated Operational Current	9 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-1 for power circuit 9 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Motor Power Kw	2.2 kW at 220230 V AC 50 Hz 4 kW at 380400 V AC 50 Hz 4 kW at 415 V AC 50 Hz 4 kW at 440 V AC 50 Hz 5.5 kW at 500 V AC 50 Hz 5.5 kW at 660690 V AC 50 Hz
Motor Power Hp (UI / Csa)	0.33 hp at 115 V AC 60 Hz for 1 phase motors 1 hp at 230/240 V AC 60 Hz for 1 phase motors 2 hp at 200/208 V AC 60 Hz for 3 phase motors 2 hp at 230/240 V AC 60 Hz for 3 phase motors 5 hp at 460/480 V AC 60 Hz for 3 phase motors 7.5 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	48130 V AC 50/60 Hz 48130 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 Current	105 A 104 °F (40 °C) - 10 s for power circuit 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 25 A gG at <= 690 V coordination type 1 for power circuit 20 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	2.4 Mcycles 8 A AC-3 <= 440 V 0.6 Mcycles 25 A AC-1 <= 440 V 2.4 Mcycles 8 A AC-3e <= 440 V
Power Dissipation Per Pole	1.56 W AC-1 0.2 W AC-3 0.2 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	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 2 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 1 0.000.01 in² (14 mm²)flexible with 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 1 0.000.01 in² (14 mm²)solid
Tightening Torque	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 Power circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals pozidriv No 2 Control 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

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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/DC 11.1 Uc 140158 °F (6070 °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	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**

IP20 front face IEC 60529
IACS E10 IEC 60947-1 Annex Q category D
TH IEC 60068-2-30
3
-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating
-76176 °F (-6080 °C)
09842.52 ft (03000 m)
1562 °F (850 °C) IEC 60695-2-1
V1 conforming to UL 94
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
3.03 in (77 mm)
3.54 in (90 mm)
3.39 in (86 mm)
1.73 lb(US) (0.783 kg)

Color

Gray SE GREY 6) Green SE GREEN 2)

# Ordering and shipping details

Category	US10l1222356
Discount Schedule	0112
Gtin	3606480987854
Returnability	No
Country Of Origin	FR

### **Packing Units**

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Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.62 in (9.2 cm)
Package 1 Width	5.31 in (13.5 cm)
Package 1 Length	4.41 in (11.2 cm)
Package 1 Weight	28.78 oz (816 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	6
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	11.80 lb(US) (5.351 kg)

### **Contractual warranty**

Warranty 18 months



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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