# **Product data sheet**

Specification





### REVERSING CONTACTOR 575VAC 150A IEC

LC2D150G7

Product availability: Stock - Normally stocked in distribution facility

Price\*: 1,700.00 USD

#### Main

Range	TeSys
Product name	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 <= 1000 V AC 25400 Hz Power circuit <= 300 V DC
[le] rated operational current	200 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 150 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit
Motor power kW	40 kW at 220230 V AC 50 Hz 75 kW at 380400 V AC 50 Hz 80 kW at 415440 V AC 50 Hz 90 kW at 500 V AC 50 Hz 100 kW at 660690 V AC 50 Hz 75 kW at 1000 V AC 50 Hz
motor power HP (UL / CSA)	40 hp at 200/208 V AC 60 Hz for 3 phase motors 50 hp at 230/240 V AC 60 Hz for 3 phase motors 100 hp at 460/480 V AC 60 Hz for 3 phase motors 125 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	8 kV IEC 60947
Overvoltage category	III
[Ith] conventional free air thermal current	200 A (at 140 °F (60 °C)) for power circuit
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 1660 A at 440 V for power circuit conforming to IEC 60947
Rated breaking capacity	1400 A at 440 V for power circuit conforming to IEC 60947

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

[Icw] rated short-time withstand current	250 A 104 °F (40 °C) - 10 min for power circuit 580 A 104 °F (40 °C) - 1 min for power circuit 1200 A 104 °F (40 °C) - 10 s for power circuit 1400 A 104 °F (40 °C) - 1 s for power circuit 1400 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 60947-5-1 315 A gG at <= 690 V coordination type 1 for power circuit 250 A gG at <= 690 V coordination type 2 for power circuit
Average impedance	0.6 mOhm - Ith 200 A 50 Hz for power circuit
[Ui] rated insulation voltage	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 Power circuit 1000 V IEC 60947-4-1
Electrical durability	0.85 Mcycles 150 A AC-3 <= 440 V 1 Mcycles 200 A AC-1 <= 440 V 0.85 Mcycles 150 A AC-3e <= 440 V
Power dissipation per pole	24 W AC-1 13.5 W AC-3 13.5 W AC-3e
Front cover	With
Interlocking type	Mechanical Electrical
Mounting Support	Rail 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
Product certifications	BV CCC CSA DNV GL RINA UL EAC UKCA
Connections - terminals	Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.000.00 in² (12.5 mm²)flexible without cable end Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible without cable end Control circuit screw clamp terminals 1 0.000.00 in² (12.5 mm²)flexible with cable end Control circuit screw clamp terminals 1 0.000.00 in² (12.5 mm²)solid without cable end Control circuit screw clamp terminals 2 0.0020.00 in² (12.5 mm²)solid without cable end Control circuit screw clamp terminals 2 0.0020.004 in² (12.5 mm²)solid without cable end Power circuit connector 1 0.020.19 in² (10120 mm²)flexible without cable end Power circuit connector 2 0.020.08 in² (1050 mm²)flexible with cable end Power circuit connector 1 0.020.19 in² (10120 mm²)flexible with cable end Power circuit connector 2 0.020.08 in² (1050 mm²)flexible without cable end Power circuit connector 1 0.020.19 in² (10120 mm²)solid without cable end Power circuit connector 2 0.020.08 in² (1050 mm²)solid without cable end
Tightening torque	Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals flat Ø 6 mm Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals Philips No 2 Power circuit 106.2 lbf.in (12 N.m) connector hexagonal 0.2 in (4 mm) Control circuit 10.6 lbf.in (1.2 N.m) screw clamp terminals pozidriv No 2
Operating time	2035 ms closing 4075 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	8000000 cycles
Maximum operating rate	1200 cyc/h 140 °F (60 °C)

## Complementary

Coil technology	Built-in bidirectional peak limiting diode suppressor
Control circuit voltage limits	0.30.5 Uc 131 °F (55 °C) drop-out AC 50/60 Hz 0.81.15 Uc 131 °F (55 °C) operational AC 50/60 Hz
Inrush power in VA	280350 VA 60 Hz 0.9 68 °F (20 °C)) 280350 VA 50 Hz 0.9 68 °F (20 °C))
Hold-in power consumption in VA	218 VA 68 °F (20 °C)) 0.9 60 Hz 218 VA 68 °F (20 °C)) 0.9 50 Hz
Heat dissipation	34.5 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
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 closed15 Gn for 11 ms Shocks contactor open6 Gn for 11 ms
Height	6.2 in (158 mm)
Width	10.5 in (266 mm)
Depth	5.8 in (148 mm)
Net Weight	14.1 lb(US) (6.4 kg)

## Ordering and shipping details

Category	US10I1222359
Discount Schedule	0112

GTIN	3389110508680
Returnability	Yes
Country of origin	C7

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	9.06 in (23.0 cm)
Package 1 Width	12.4 in (31.5 cm)
Package 1 Length	14.6 in (37.0 cm)
Package 1 Weight	14.3 lb(US) (6.5 kg)

### **Contractual warranty**

Warranty 18 months



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#### Well-being performance



#### **Certifications & Standards**

REACh Declaration
Compliant with Exemptions
China RoHS declaration  Product out of China RoHS scope. Substance declaration for your information.
Product Environmental Profile
The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
End of Life Information
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