# **Product data sheet**

Specification





# TeSys Deca reversing contactor - 3P - <= 440 V - 40 A AC-3 - 24 V DC coil

LC2D40ABBE

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

Price\*: 311.00 USD

#### Main

Range	TeSys
	TeSys Deca
Product name	Tesys Deca green
	TeSys Deca
Description Commonweal Trans	B :
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
[le] rated operational current	CO A (at 4440 °F (CO °C)) at a = 440 \/ AC 4 for a particular
[le] rated operational current	60 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit
	40 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 40 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit
	40 A (at < 140 F (60 C)) at < = 440 V AC-5e for power circuit
Motor power kW	11 kW at 220230 V AC 50 Hz
·	18.5 kW at 380400 V AC 50 Hz
	22 kW at 415 V AC 50 Hz
	22 kW at 440 V AC 50 Hz
	22 kW at 500 V AC 50 Hz
	30 kW at 660690 V AC 50 Hz
mater review IID (III / CCA)	
motor power HP (UL / CSA)	3 hp at 115 V AC 60 Hz for 1 phase motors
	5 hp at 230/240 V AC 60 Hz for 1 phase motors
	10 hp at 200/208 V AC 60 Hz for 3 phase motors
	10 hp at 230/240 V AC 60 Hz for 3 phase motors
	30 hp at 460/480 V AC 60 Hz for 3 phase motors
	30 hp at 575/600 V AC 60 Hz for 3 phase motors
Control circuit type	DC DC low consumption
[Uc] control circuit voltage	24 V DC
Auxiliary contact composition	1 NO + 1 NC
[Uimp] rated impulse withstand	6 kV IEC 60947
voltage	
Overvoltage category	III
[Ith] conventional free air thermal	10 A (at 140 °F (60 °C)) for signalling circuit
current	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.

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 current	100 A - 1 s for signalling circuit 120 A - 500 ms for signalling circuit 140 A - 100 ms for signalling circuit 320 A 104 °F (40 °C) - 10 s for power circuit 720 A 104 °F (40 °C) - 1 s for power circuit 72 A 104 °F (40 °C) - 10 min for power circuit 165 A 104 °F (40 °C) - 1 min for power 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 Signalling circuit 690 V IEC 60947-1
Electrical durability	2 Mcycles 35 A AC-3 <= 440 V 0.7 Mcycles 60 A AC-1 <= 440 V 2 Mcycles 35 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	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 0.0020.006 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 0.0020.006 in² (14 mm²)solid Control circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid Power circuit screw clamp terminals 2 0.0020.006 in² (14 mm²)solid Power circuit EverLink BTR screw connectors 1 0.0020.05 in² (135 mm²)flexible without cable end Power circuit EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²)flexible with cable end Power circuit EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²)flexible with cable end Power circuit EverLink BTR screw connectors 2 0.0020.04 in² (125 mm²)flexible with cable end Power circuit EverLink BTR screw connectors 2 0.0020.05 in² (135 mm²)flexible with cable end Power circuit EverLink BTR screw connectors 2 0.0020.05 in² (135 mm²)solid Power circuit EverLink BTR screw connectors 2 0.0020.04 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 in² (25 35 mm²) hexagonal 0.2 in (4 mm) Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.0020.04 in² (1 25 mm²) hexagonal 0.2 in (4 mm)

Operating time	5565 ms closing 20120 ms opening >= 17221) 2080 ms opening >= 18011)	
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	Built-in bidirectional peak limiting	
Control circuit voltage limits	<= 0.1 Uc -40158 °F (-4070 °C) drop-out DC 0.81.2 Uc -40140 °F (-4060 °C) operational DC 11.2 Uc 140158 °F (6070 °C) operational DC	
Inrush power in W	11 W 68 °F (20 °C)	
Hold-in power consumption in W	0.5 W 68 °F (20 °C)	
Heat dissipation	0.5 W	
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 -40140 °F (-4060 °C) peration 140158 °F (6070 °C) with derating		
Ambient Air Temperature for -76176 °F (-6080 °C) Storage		
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	4.749 lb(US) (2.154 kg)	
Gray SE GREY 6) Green SE GREEN 2)		

## Ordering and shipping details

Category	US10l1222356	
Discount Schedule	0112	
GTIN	3606480988172	
Returnability	No	
Country of origin	US	

## **Packing Units**

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	5.6 in (14.2 cm)
Package 1 Width	6.4 in (16.2 cm)
Package 1 Length	7.7 in (19.5 cm)
Package 1 Weight	5.221 lb(US) (2.368 kg)
Unit Type of Package 2	S03
Number of Units in Package 2	4
Package 2 Height	11.8 in (30 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	21.918 lb(US) (9.942 kg)

## **Contractual warranty**

Warranty 18 months



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Transparency RoHS/REACh

#### Well-being performance

<b>②</b>	Mercury Free	
<b>⊘</b>	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.
<b>Environmental Disclosure</b>	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