Product data sheet

Specifications





TeSys Deca reversing contactor -3P(3 NO) - AC-3 - <= 440 V 40 A -24 V DC coil

LC2D40A3BD

() Discontinued on: Jul 12, 2021

() Discontinued

Main

Wall	
Range	TeSys
Product Name	TeSys Deca
Product Or Component Type	Reversing contactor
Device Short Name	LC2D
Contactor Application	Resistive load Motor control
Utilisation Category	AC-3 AC-1
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 Power circuit <= 300 V DC
[le] Rated Operational Current	40 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 60 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit
Motor Power Kw	18.5 kW at 380400 V AC 50 Hz 11 kW at 220230 V AC 50 Hz 22 kW at 415440 V AC 50 Hz 22 kW at 500 V AC 50 Hz 30 kW at 660690 V AC 50 Hz
Motor Power Hp (UI / Csa)	5 hp at 230/240 V AC 60 Hz for 1 phase motors 10 hp at 230/240 V AC 60 Hz for 3 phase motors 30 hp at 575/600 V AC 60 Hz for 3 phase motors 10 hp at 200/208 V AC 60 Hz for 3 phase motors 3 hp at 115 V AC 60 Hz for 1 phase motors 30 hp at 460/480 V AC 60 Hz for 3 phase motors
Control Circuit Type	DC standard
[Uc] Control Circuit Voltage	24 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 60 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 60947-5-1 800 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

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

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72 A 104 °F (40 °C) - 10 min for power circuit
165 A 104 °F (40 °C) - 1 min for power circuit
320 A 104 °F (40 °C) - 10 s for power circuit
720 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
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
1.5 mOhm - Ith 60 A 50 Hz for power circuit
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Power circuit 690 V IEC 60947-4-1 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
1.5 Mcycles 40 A AC-3 <= 440 V
0.7 Mcycles 60 A AC-1 <= 440 V
2.4 W AC-3
5.4 W AC-1
With
Mechanical
Rail
Plate
CSA C22.2 No 14
EN 60947-4-1
EN 60947-5-1
IEC 60947-4-1
IEC 60947-5-1
UL 508
CCC
CSA
GOST
UL
Power circuit EverLink BTR screw connectors 1 0.000.05 in ² (135 mm ²)flexible
without cable end
Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)flexible
without cable end
Power circuit EverLink BTR screw connectors 1 0.000.05 in ² (135 mm ²)flexible
with cable end
Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)flexible
with cable end
Power circuit EverLink BTR screw connectors 1 0.000.05 in ² (135 mm ²)solid
Power circuit EverLink BTR screw connectors 2 0.000.04 in ² (125 mm ²)solid
Control circuit spring terminals 1 0.000.00 in ² (0.752.5 mm ²)flexible without cable
end
Control circuit spring terminals 2 0.000.00 in ² (0.752.5 mm ²)flexible without cable
end
Power circuit 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in ²
(2535 mm ²) hexagonal 0.16 in (4 mm)
Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in ² (1
25 mm ²) hexagonal 0.16 in (4 mm)
1624 ms opening
42.557.5 ms closing
B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1
B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
10 Mcycles
10 Mcycles 3600 cyc/h 140 °F (60 °C)

Complementary

Coil Technology	Built-in bidirectional peak limiting diode suppressor
Control Circuit Voltage Limits	0.10.3 Uc -40158 °F (-4070 °C) drop-out DC 0.751.25 Uc -40140 °F (-4060 °C) operational DC 11.25 Uc 140158 °F (6070 °C) operational DC
Time Constant	34 ms
Inrush Power In W	19 W 68 °F (20 °C))
Hold-In Power Consumption In W	7.4 W 68 °F (20 °C)
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 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	4.80 in (122 mm)
Width	4.69 in (119 mm)
Depth	4.72 in (120 mm)
Net Weight	4.45 lb(US) (2.02 kg)

Ordering and shipping details

PCE

Category	22358-CTR,TESYS D,OPEN,40-65A DC
Discount Schedule	112
Gtin	3389118341296
Returnability	No
Country Of Origin	FR

Packing Units

Unit Type Of Package 1

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Number Of Units In Package 1	1
Package 1 Height	5.51 in (14 cm)
Package 1 Width	6.38 in (16.2 cm)
Package 1 Length	7.80 in (19.8 cm)
Package 1 Weight	4.63 lb(US) (2.1 kg)

Contractual warranty

Warranty

18 months

Sustainability Screen

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ 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

Reach Free Of Svhc
Toxic Heavy Metal Free
Mercury Free
Rohs Exemption Information Yes
Pvc Free

Certifications & Standards

Compliant
EU RoHS Declaration
China RoHS declaration Pro-active China RoHS declaration (out of China RoHS legal scope)
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