# Product data sheet

Specifications





IEC contactor, TeSys Deca Green, nonreversing, 65A, 40HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24/60VAC/VDC coil, open

LC1D65ABNE

Product availability: Stock - Normally stocked in distribution facility

### Price\*: 162.00 USD

### Main

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Range	TeSys TeSys Deca
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Motor control Resistive load
Utilisation Category	AC-3 AC-1 AC-3e
Poles Description	3P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25400 Hz
[le] Rated Operational Current	80 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC-3 for power circuit 65 A (at <140 °F (60 °C)) at <= 440 V AC-3e for power circuit
[Uc] Control Circuit Voltage	2460 V AC 50/60 Hz 2460 V DC

### Complementary

Motor Power Kw	18.5 kW at 220230 V AC 50 Hz (AC-3)
	30 kW at 380400 V AC 50 Hz (AC-3)
	37 kW at 415 V AC 50 Hz (AC-3)
	37 kW at 440 V AC 50 Hz (AC-3)
	37 kW at 500 V AC 50 Hz (AC-3)
	37 kW at 660690 V AC 50 Hz (AC-3)
	18.5 kW at 220230 V AC 50 Hz (AC-3e)
	30 kW at 380400 V AC 50 Hz (AC-3e)
	37 kW at 415 V AC 50 Hz (AC-3e)
	37 kW at 440 V AC 50 Hz (AC-3e)
	37 kW at 500 V AC 50 Hz (AC-3e)
	37 kW at 660690 V AC 50 Hz (AC-3e)
Maximum Horse Power Rating	5 hp at 115 V AC 60 Hz for 1 phase motors
	10 hp at 230/240 V AC 60 Hz for 1 phase motors
	20 hp at 200/208 V AC 60 Hz for 3 phase motors
	20 hp at 230/240 V AC 60 Hz for 3 phase motors
	40 hp at 460/480 V AC 60 Hz for 3 phase motors
	50 hp at 575/600 V AC 60 Hz for 3 phase motors
Compatibility Code	LC1D
Pole Contact Composition	3 NO

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

Protective Cover	With
[Ith] Conventional Free Air	80 A (at 140 °F (60 °C)) for power circuit
Thermal Current	10 A (at 140 °F (60 °C)) for signalling circuit
Irms Rated Making Capacity	1000 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	1000 A at 440 V for power circuit conforming to IEC 60947
[Icw] Rated Short-Time Withstand	110 A 104 °F (40 °C) - 10 min for power circuit
Current	260 A 104 °F (40 °C) - 1 min for power circuit
	640 A 104 °F (40 °C) - 10 s for power circuit
	900 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	125 A gG at <= 690 V coordination type 1 for power circuit
	125 A gG at <= 690 V coordination type 2 for power circuit
	10 A gG for signalling circuit conforming to IEC 60947-5-1
Average Impedance	1.5 mOhm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	9.6 W AC-1
	6.3 W AC-3
	6.3 W AC-3e
[Ui] Rated Insulation Voltage	Power circuit 690 V IEC 60947-4-1
	Signalling circuit 690 V IEC 60947-1
Overvoltage Category	Ш
Pollution Degree	3
[Uimp] Rated Impulse Withstand	6 kV IEC 60947
Voltage	
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
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Mechanical Durability	6 Mcycles
Electrical Durability	1.8 Mcycles 57 A AC-3 <= 440 V
	0.5 Mcycles 80 A AC-1 <= 440 V
	1.8 Mcycles 57 A AC-3e <= 440 V
Control Circuit Type	AC/DC 50/60 Hz AC/DC electronic
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
	0.81.1 Uc -40140 °F (-4060 °C) operational DC
	11.1 Uc 140158 °F (6070 °C) operational AC/DC
Inrush Power In Va	15 VA 50/60 Hz (at 68 °F (20 °C))
Inrush Power In W	16 W 68 °F (20 °C))
Hold-In Power Consumption In Va	1 VA 50/60 Hz (at 68 °F (20 °C))
Hold-In Power Consumption In W	0.7 W 68 °F (20 °C)
Heat Dissipation	0.7 W at 50/60 Hz
Operating Time	5565 ms closing
	20120 ms opening >= 17221)
	2080 ms opening >= 18011)
Maximum Operating Rate	3600 cyc/h 140 °F (60 °C)

Connections - Terminals	Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:
	flexible without cable end
	Control circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:
	flexible without cable end
	Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness:
	flexible with cable end
	Control circuit: screw clamp terminals 2 0.000.00 in <sup>2</sup> (12.5 mm <sup>2</sup> ) - cable stiffness: flexible with cable end
	Control circuit: screw clamp terminals 1 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid
	Control circuit: screw clamp terminals 2 0.000.01 in <sup>2</sup> (14 mm <sup>2</sup> ) - cable stiffness: solid
	Power circuit: EverLink BTR screw connectors 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: flexible without cable end
	Power circuit: EverLink BTR screw connectors 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: flexible with cable end
	Power circuit: EverLink BTR screw connectors 1 0.000.05 in <sup>2</sup> (135 mm <sup>2</sup> ) - cable stiffness: solid
	Power circuit: EverLink BTR screw connectors 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness: flexible without cable end
	Power circuit: EverLink BTR screw connectors 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness: flexible with cable end
	Power circuit: EverLink BTR screw connectors 2 0.000.04 in <sup>2</sup> (125 mm <sup>2</sup> ) - cable stiffness: 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 70.81 lbf.in (8 N.m) EverLink BTR screw connectors 0.040.05 in <sup>2</sup> (2535 mm <sup>2</sup> ) hexagonal 0.16 in (4 mm)
	Power circuit 44.25 lbf.in (5 N.m) EverLink BTR screw connectors 0.000.04 in <sup>2</sup> (1 25 mm <sup>2</sup> ) hexagonal 0.16 in (4 mm) Power circuit 22.13 lbf.in (2.5 N.m) pozidriv No 2
	Control circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2
Auxiliary Contact Composition	1 NO + 1 NC
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 Voltage	17 V for signalling circuit
Minimum Switching Current	5 mA for signalling circuit
Insulation Resistance	> 10 MOhm for signalling circuit
Ion-Overlap Time     1.5 ms on de-energisation between NC and NO contact       1.5 ms on energisation between NC and NO contact	
Non-Overlap Time	•

### Environment

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
Ip Degree Of Protection	IP20 front face IEC 60529
Climatic Withstand	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
Permissible Ambient Air Temperature Around The Device	-40140 °F (-4060 °C) 140158 °F (6070 °C) with derating

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 open 2 Gn, 5300 Hz) Vibrations contactor closed 4 Gn, 5300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)	
Height	4.80 in (122 mm)	
Width	2.17 in (55 mm)	
Depth	4.72 in (120 mm)	
Net Weight	2.21 lb(US) (1.002 kg)	

# Ordering and shipping details

Category	US10I1222356
Discount Schedule	0112
Gtin	3606480988264
Returnability	Yes
Country Of Origin	FR

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.40 in (6.100 cm)
Package 1 Width	5.51 in (14.000 cm)
Package 1 Length	6.10 in (15.500 cm)
Package 1 Weight	2.31 lb(US) (1.046 kg)
Unit Type Of Package 2	S02
Number Of Units In Package 2	9
Package 2 Height	5.91 in (15.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	21.56 lb(US) (9.780 kg)

## **Contractual warranty**

Warranty

18 months

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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