

Product data sheet

Specifications



IEC contactor, TeSys Deca Green, nonreversing, 40A, 30HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 24VDC coil, open style

LC1D40ABBE

Product availability: Stock - Normally stocked in distribution facility

Price*: 111.00 USD

Main

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-1 AC-3 AC-3e
poles description	3P
[Ue] rated operational voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] rated operational current	60 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC-1 for power circuit 40 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC-3 for power circuit 40 A (at <140.0000000000 °F (60 °C)) at <= 440 V AC-3e for power circuit
[Uc] control circuit voltage	24 V DC

Complementary

Motor power kW	11 kW at 220...230 V AC 50 Hz (AC-3) 18.5 kW at 380...400 V AC 50 Hz (AC-3) 22 kW at 415 V AC 50 Hz (AC-3) 22 kW at 440 V AC 50 Hz (AC-3) 22 kW at 500 V AC 50 Hz (AC-3) 30 kW at 660...690 V AC 50 Hz (AC-3) 11 kW at 220...230 V AC 50 Hz (AC-3e) 18.5 kW at 380...400 V AC 50 Hz (AC-3e) 22 kW at 415 V AC 50 Hz (AC-3e) 22 kW at 440 V AC 50 Hz (AC-3e) 22 kW at 500 V AC 50 Hz (AC-3e) 30 kW at 660...690 V AC 50 Hz (AC-3e)
Maximum Horse Power Rating	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
Compatibility code	LC1D
Pole contact composition	3 NO
Protective cover	With

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

[Ith] conventional free air thermal current	60 A (at 140.0000000000 °F (60 °C)) for power circuit 10 A (at 140.0000000000 °F (60 °C)) for signalling circuit
Irms rated making capacity	800 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	800 A at 440 V for power circuit conforming to IEC 60947
[Icw] rated short-time withstand current	72 A 104.0000000000 °F (40 °C) - 10 min for power circuit 165 A 104.0000000000 °F (40 °C) - 1 min for power circuit 320 A 104.0000000000 °F (40 °C) - 10 s for power circuit 720 A 104.0000000000 °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	80 A gG at <= 690 V coordination type 1 for power circuit 80 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 60 A 50 Hz for power circuit
Power dissipation per pole	5.4 W AC-1 2.4 W AC-3 2.4 W AC-3e
[Ui] rated insulation voltage	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
Overvoltage category	III
Pollution degree	3
[Uimp] rated impulse withstand voltage	6 kV IEC 60947
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
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
Control circuit type	DC DC low consumption
Coil technology	Built-in bidirectional peak limiting
Control circuit voltage limits	<= 0.1 Uc -40.0000000000...158.0000000000 °F (-40...70 °C) drop-out DC 0.8...1.2 Uc -40.0000000000...140.0000000000 °F (-40...60 °C) operational DC 1...1.2 Uc 140.0000000000...158.0000000000 °F (60...70 °C) operational DC
Inrush power in W	11 W 68.0000000000 °F (20 °C))
Hold-in power consumption in W	0.5 W 68.0000000000 °F (20 °C)
Heat dissipation	0.5 W
Operating time	55...65 ms closing 20...120 ms opening >= 17221) 20...80 ms opening >= 18011)
Maximum operating rate	3600 cyc/h 140.0000000000 °F (60 °C)

Connections - terminals	<p>Power circuit: EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) - cable stiffness: solid</p> <p>Power circuit: EverLink BTR screw connectors 2 0.002...0.04 in² (1...25 mm²) - cable stiffness: solid</p> <p>Power circuit: EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: EverLink BTR screw connectors 2 0.002...0.04 in² (1...25 mm²) - cable stiffness: flexible without cable end</p> <p>Power circuit: EverLink BTR screw connectors 1 0.002...0.05 in² (1...35 mm²) - cable stiffness: flexible with cable end</p> <p>Power circuit: EverLink BTR screw connectors 2 0.002...0.04 in² (1...25 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: solid</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in² (1...4 mm²) - cable stiffness: solid</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.004 in² (1...2.5 mm²) - cable stiffness: flexible with cable end</p> <p>Control circuit: screw clamp terminals 1 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible without cable end</p> <p>Control circuit: screw clamp terminals 2 0.002...0.006 in² (1...4 mm²) - cable stiffness: flexible without cable end</p>
Tightening torque	<p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals flat Ø 6 mm</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) screw clamp terminals Philips No 2</p> <p>Power circuit 70.8 lbf.in (8 N.m) EverLink BTR screw connectors 0.04...0.05 in² (25...35 mm²) hexagonal 0.2 in (4 mm)</p> <p>Power circuit 44.3 lbf.in (5 N.m) EverLink BTR screw connectors 0.002...0.04 in² (1...25 mm²) hexagonal 0.2 in (4 mm)</p> <p>Power circuit 44.3 lbf.in (5 N.m) pozidriv No 2</p> <p>Control circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2</p>
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	25...400 Hz
Minimum switching voltage	17 V for signalling circuit
Minimum switching current	5 mA for signalling circuit
Insulation resistance	> 10 MOhm 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
Mounting Support	Plate Rail

Environment

Standards	<p>EN/IEC 60947-4-1</p> <p>EN/IEC 60947-5-1</p> <p>UL 60947-4-1</p> <p>CSA C22.2 No 60947-4-1</p> <p>IEC 60335-1</p>
Product Certifications	<p>CCC</p> <p>CSA</p> <p>EAC</p> <p>UL</p> <p>KC</p> <p>DNV-GL</p> <p>LROS (Lloyds register of shipping)</p> <p>UKCA</p>
IP degree of protection	IP20 front face IEC 60529
Climatic withstand	<p>IACS E10 exposure to damp heat</p> <p>IEC 60947-1 Annex Q category D exposure to damp heat</p>
Permissible ambient air temperature around the device	<p>-40.000000000...140.000000000 °F (-40...60 °C)</p> <p>140.000000000...158.000000000 °F (60...70 °C) with derating</p>

Operating altitude	0...9842.52 ft (0...3000 m)
Fire resistance	1562.0000000000 °F (850 °C) IEC 60695-2-1
Flame retardance	V1 conforming to UL 94
Mechanical robustness	Vibrations contactor open 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) Shocks contactor open 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms)
Height	4.8 in (122 mm)
Width	2.2 in (55 mm)
Depth	4.7 in (120 mm)
Net Weight	2.187 lb(US) (0.992 kg)

Ordering and shipping details

Category	US10I1222356
Discount Schedule	0112
GTIN	3606480987816
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.441 in (6.200 cm)
Package 1 Width	5.354 in (13.600 cm)
Package 1 Length	5.984 in (15.200 cm)
Package 1 Weight	2.326 lb(US) (1.055 kg)
Unit Type of Package 2	S02
Number of Units in Package 2	9
Package 2 Height	5.906 in (15.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	21.557 lb(US) (9.778 kg)

Contractual warranty

Warranty	18 months
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Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class 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

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](#)