

# Product data sheet

Specifications



IEC contactor, TeSys Deca Green, nonreversing, 80A resistive, 4 pole, 4 NO, 24/60VAC/VDC coil, open style

LC1DT80A6BNE

Product availability: Stock - Normally stocked in distribution facility

Price\*: 642.00 USD

## Main

Range	TeSys TeSys Deca
Range Of Product	TeSys Deca
Product Or Component Type	Contactor
Device Short Name	LC1D
Contactor Application	Resistive load
Utilisation Category	AC-1
Poles Description	4P
[Ue] Rated Operational Voltage	Power circuit <= 690 V AC 25...400 Hz
[Ie] Rated Operational Current	80 A (at <140 °F (60 °C)) at <= 440 V AC-1 for power circuit
[Uc] Control Circuit Voltage	24...60 V AC 50/60 Hz 24...60 V DC

## Complementary

Compatibility Code	LC1D
Pole Contact Composition	4 NO
Protective Cover	With
[Ith] Conventional Free Air Thermal Current	80 A (at 140 °F (60 °C)) for power circuit 10 A (at 140 °F (60 °C)) for signalling circuit
Rms 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 Current	110 A 104 °F (40 °C) - 10 min for power circuit 260 A 104 °F (40 °C) - 1 min for power circuit 520 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	1.6 mOhm - Ith 80 A 50 Hz for power circuit
Power Dissipation Per Pole	10.2 W AC-1

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

<b>[Ui] Rated Insulation Voltage</b>	Power circuit 690 V IEC 60947-4-1 Signalling circuit 690 V IEC 60947-1
<b>Overvoltage Category</b>	III
<b>Pollution Degree</b>	3
<b>[Uimp] Rated Impulse Withstand Voltage</b>	6 kV IEC 60947
<b>Safety Reliability Level</b>	B10d = 1369863 cycles contactor with nominal load EN/ISO 13849-1 B10d = 20000000 cycles contactor with mechanical load EN/ISO 13849-1
<b>Mechanical Durability</b>	6 Mcycles
<b>Electrical Durability</b>	0.5 Mcycles 80 A AC-1 <= 440 V
<b>Control Circuit Type</b>	AC/DC 50/60 Hz AC/DC electronic
<b>Coil Technology</b>	Built-in bidirectional peak limiting
<b>Control Circuit Voltage Limits</b>	<= 0.1 Uc -40...158 °F (-40...70 °C) drop-out AC/DC 0.85...1.1 Uc -40...140 °F (-40...60 °C) operational AC 0.8...1.1 Uc -40...140 °F (-40...60 °C) operational DC 1...1.1 Uc 140...158 °F (60...70 °C) operational AC/DC
<b>Inrush Power In Va</b>	15 VA 50/60 Hz (at 68 °F (20 °C))
<b>Inrush Power In W</b>	16 W 68 °F (20 °C))
<b>Hold-In Power Consumption In Va</b>	1 VA 50/60 Hz (at 68 °F (20 °C))
<b>Hold-In Power Consumption In W</b>	0.7 W 68 °F (20 °C)
<b>Heat Dissipation</b>	0.7 W at 50/60 Hz
<b>Operating Time</b>	55...65 ms closing 20...80 ms opening
<b>Maximum Operating Rate</b>	3600 cyc/h 140 °F (60 °C)
<b>Connections - Terminals</b>	Power circuit: lugs-ring terminals - external diameter: 0.65 in (16.5 mm) Control circuit: lugs-ring terminals - external diameter: 0.31 in (8 mm)
<b>Tightening Torque</b>	Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals flat Ø 6 mm M3.5 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals Philips No 2 M3.5 Power circuit 53.10 lbf.in (6 N.m) lugs-ring terminals hexagonal 0.39 in (10 mm) M6 Power circuit 53.10 lbf.in (6 N.m) lugs-ring terminals pozidriv No 2 M4 Control circuit 15.05 lbf.in (1.7 N.m) lugs-ring terminals pozidriv No 2 M3.5
<b>Auxiliary Contact Composition</b>	1 NO + 1 NC
<b>Auxiliary Contacts Type</b>	Mechanically linked 1 NO + 1 NC IEC 60947-5-1 Mirror contact 1 NC IEC 60947-4-1
<b>Signalling Circuit Frequency</b>	25...400 Hz
<b>Minimum Switching Voltage</b>	17 V for signalling circuit
<b>Minimum Switching Current</b>	5 mA for signalling circuit
<b>Insulation Resistance</b>	> 10 MOhm for signalling circuit
<b>Non-Overlap Time</b>	1.5 ms on de-energisation between NC and NO contact 1.5 ms on energisation between NC and NO contact
<b>Mounting Support</b>	Plate Rail

## Environment

<b>Standards</b>	EN/IEC 60947-4-1 EN/IEC 60947-5-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 IEC 60335-1
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<b>Product Certifications</b>	CCC CSA EAC UL KC DNV-GL LROS (Lloyds register of shipping) UKCA
<b>Ip Degree Of Protection</b>	IP20 front face IEC 60529
<b>Climatic Withstand</b>	IACS E10 exposure to damp heat IEC 60947-1 Annex Q category D exposure to damp heat
<b>Permissible Ambient Air Temperature Around The Device</b>	-40...140 °F (-40...60 °C) 140...158 °F (60...70 °C) with derating
<b>Operating Altitude</b>	0...9842.52 ft (0...3000 m)
<b>Fire Resistance</b>	1562 °F (850 °C) IEC 60695-2-1
<b>Flame Retardance</b>	V1 conforming to UL 94
<b>Mechanical Robustness</b>	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)
<b>Height</b>	4.80 in (122 mm)
<b>Width</b>	2.76 in (70 mm)
<b>Depth</b>	4.72 in (120 mm)
<b>Net Weight</b>	2.84 lb(US) (1.290 kg)

## Ordering and shipping details

<b>Category</b>	22357-CTR, TESYS D, OPEN, 40-65A AC
<b>Discount Schedule</b>	I12
<b>Gtin</b>	3606489493530
<b>Returnability</b>	No

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	2.76 in (7.0 cm)
<b>Package 1 Width</b>	5.43 in (13.8 cm)
<b>Package 1 Length</b>	6.02 in (15.3 cm)
<b>Package 1 Weight</b>	2.56 lb(US) (1.161 kg)

## Contractual warranty

<b>Warranty</b>	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-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](#)