

Product data sheet

Specifications



IEC contactor, TeSys Deca, nonreversing, 18A, 10HP at 480VAC, up to 100kA SCCR, 3 phase, 3 NO, 110VAC 50/60Hz coil, bulk

LC1D18F7TQ

Product availability: Stock - Normally stocked in distribution facility

Price*: 163.20 USD

Main

| | |
|--------------------------------|--|
| Range | TeSys TeSys Deca |
| Range of Product | TeSys Deca |
| Product or Component Type | Contactors |
| Device short name | LC1D |
| Contactors application | Resistive load Motor control |
| 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 | 32 A (at <140 °F (60 °C)) at <= 440 V AC AC-1 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3 for power circuit 18 A (at <140 °F (60 °C)) at <= 440 V AC AC-3e for power circuit |
| [Uc] control circuit voltage | 110 V AC 50/60 Hz |

Complementary

| | |
|----------------------------|--|
| Motor power kW | 10 kW at 500 V AC 50/60 Hz 10 kW at 660...690 V AC 50/60 Hz 4 kW at 220...230 V AC 50/60 Hz 7.5 kW at 380...400 V AC 50/60 Hz 9 kW at 415...440 V AC 50/60 Hz |
| Maximum Horse Power Rating | 1 hp at 115 V AC 50/60 Hz for 1 phase motors conforming to UL 1 hp at 115 V AC 50/60 Hz for 1 phase motors conforming to CSA 10 hp at 460/480 V AC 50/60 Hz for 3 phase motors conforming to CSA 10 hp at 460/480 V AC 50/60 Hz for 3 phase motors conforming to UL 15 hp at 575/600 V AC 50/60 Hz for 3 phase motors conforming to CSA 15 hp at 575/600 V AC 50/60 Hz for 3 phase motors conforming to UL 5 hp at 200/208 V AC 50/60 Hz for 3 phase motors conforming to CSA 5 hp at 200/208 V AC 50/60 Hz for 3 phase motors conforming to UL 3 hp at 230...240 V AC 50/60 Hz for 1 phase motors conforming to CSA 3 hp at 230...240 V AC 50/60 Hz for 1 phase motors conforming to UL 5 hp at 230...240 V AC 50/60 Hz for 3 phase motors conforming to CSA 5 hp at 230...240 V AC 50/60 Hz for 3 phase motors conforming to UL |
| 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.

| | |
|---|--|
| [I_{th}] conventional free air thermal current | 10 A (at 140 °F (60 °C)) for control circuit 32 A (at 140 °F (60 °C)) for power circuit |
| I_{rms} rated making capacity | 140 A AC for control circuit conforming to IEC 60947-5-1 300 A at 440 V for power circuit conforming to IEC 60947 |
| Rated breaking capacity | 300 kA at 440 V for power circuit conforming to IEC 60947 |
| Associated fuse rating | 10 A gG for control circuit conforming to IEC 60947-5-1 35 A at ≤ 690 V coordination type 2 for power circuit 50 A at ≤ 690 V coordination type 1 for power circuit |
| Average impedance | 2.5 mOhm - I _{th} 32 A 50 Hz for power circuit |
| Power dissipation per pole | 0.8 W AC-3 2.5 W AC-1 0.8 W AC-3e |
| [U_i] rated insulation voltage | Control circuit 600 V CSA Control circuit 600 V UL Power circuit 600 V CSA Power circuit 600 V UL Control circuit 690 V IEC 60947-4-1 Power circuit 690 V IEC 60947-4-1 |
| Overvoltage category | III |
| [U_{imp}] 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 | 15000000 cycles |
| Control circuit type | AC 50/60 Hz |
| Coil technology | Without built-in bidirectional peak limiting diode suppressor |
| Control circuit voltage limits | 0.3...0.6 U _c 140 °F (60 °C) drop-out AC 50/60 Hz 0.8...1.1 U _c 140 °F (60 °C) operational AC 50 Hz 0.85...1.1 U _c 140 °F (60 °C) operational AC 60 Hz |
| Inrush power in VA | 70 VA cos phi 0.75 (at 68 °F (20 °C)) |
| Hold-in power consumption in VA | 7 VA 50/60 Hz cos phi 0.3 (at 68 °F (20 °C)) |
| Heat dissipation | 2...3 W at 50/60 Hz for control circuit |
| Operating time | 4...19 ms opening 12...22 ms closing |
| Maximum operating rate | 3600 cyc/h 140 °F (60 °C) |
| Connections - terminals | Control circuit: screw clamp terminal 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: solid without cable end Control circuit: screw clamp terminal 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible without cable end Control circuit: screw clamp terminal 1 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Control circuit: screw clamp terminal 2 0.002...0.004 in ² (1...2.5 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 1 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: solid without cable end Power circuit: screw clamp terminal 2 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: solid without cable end Power circuit: screw clamp terminal 1 0.002...0.009 in ² (1...6 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 2 0.002...0.006 in ² (1...4 mm ²) - cable stiffness: flexible with cable end Power circuit: screw clamp terminal 1 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: flexible without cable end Power circuit: screw clamp terminal 2 0.002...0.009 in ² (1.5...6 mm ²) - cable stiffness: flexible without cable end |

| | |
|--------------------------------------|--|
| Tightening torque | Control circuit 15.05 lbf.in (1.7 N.m) flat Ø 6 mm Control circuit 15.05 lbf.in (1.7 N.m) Philips No 2 Power circuit 15.05 lbf.in (1.7 N.m) flat Ø 6 mm Power circuit 15.05 lbf.in (1.7 N.m) Philips No 2 Control circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2 Power circuit 15.05 lbf.in (1.7 N.m) pozidriv No 2 |
| Auxiliary contact composition | 1 NO + 1 NC |
| Minimum switching voltage | 17 V for control circuit |
| Minimum switching current | 5 mA for control circuit |
| Insulation resistance | > 10 MOhm for control circuit |
| Non-overlap time | 1.5 ms on de-energisation between NC and NO contacts 1.5 ms on energisation between NC and NO contacts |
| Mounting Support | Rail Plate |

Environment

| | |
|--|--|
| Standards | EN/IEC 60947-4-1 CSA C22.2 No 14 EN/IEC 60947-5-1 UL 508 IEC 60335-1 |
| Product Certifications | CCC GOST GL UL LROS (Lloyds register of shipping) DNV BV RINA CSA UKCA |
| IP degree of protection | IP2X IEC 60529 IP2X VDE 0106 |
| 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 | 23...140 °F (-5...60 °C) -40...158 °F (-40...70 °C) at Uc |
| Operating altitude | 9842.52 ft (3000 m) without derating |
| Fire resistance | 1562 °F (850 °C) IEC 60695-2-1 |
| Flame retardance | V1 conforming to UL 94 |
| Mechanical robustness | Shocks contactor opened 10 Gn for 11 ms) Shocks contactor closed 15 Gn for 11 ms) Vibrations contactor opened 2 Gn, 5...300 Hz) Vibrations contactor closed 4 Gn, 5...300 Hz) |
| Height | 3.03 in (77 mm) |
| Width | 1.8 in (45 mm) |
| Depth | 3.4 in (86 mm) |
| Net Weight | 7.3 lb(US) (3.3 kg) |
| Quantity per Set | Set of 10 |

Ordering and shipping details

| | |
|--------------------------|---------------|
| Category | US101222354 |
| Discount Schedule | 0112 |
| GTIN | 3389110123814 |

| | |
|---------------|-----|
| Returnability | Yes |
|---------------|-----|

| | |
|-------------------|----|
| Country of origin | FR |
|-------------------|----|

Packing Units

| | |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

| | |
|------------------------------|---|
| Number of Units in Package 1 | 1 |
|------------------------------|---|

| | |
|------------------|-------------------|
| Package 1 Height | 5.91 in (15.0 cm) |
|------------------|-------------------|

| | |
|-----------------|--------------------|
| Package 1 Width | 11.81 in (30.0 cm) |
|-----------------|--------------------|

| | |
|------------------|--------------------|
| Package 1 Length | 15.75 in (40.0 cm) |
|------------------|--------------------|

| | |
|------------------|-------------------|
| Package 1 Weight | 11.3 oz (320.0 g) |
|------------------|-------------------|

| | |
|------------------------|-----|
| Unit Type of Package 2 | S02 |
|------------------------|-----|

| | |
|------------------------------|----|
| Number of Units in Package 2 | 24 |
|------------------------------|----|

| | |
|------------------|-------------------|
| Package 2 Height | 5.91 in (15.0 cm) |
|------------------|-------------------|

| | |
|-----------------|--------------------|
| Package 2 Width | 11.81 in (30.0 cm) |
|-----------------|--------------------|

| | |
|------------------|--------------------|
| Package 2 Length | 15.75 in (40.0 cm) |
|------------------|--------------------|

| | |
|------------------|--------------------------|
| Package 2 Weight | 17.935 lb(US) (8.135 kg) |
|------------------|--------------------------|

| | |
|------------------------|-----|
| Unit Type of Package 3 | PAL |
|------------------------|-----|

| | |
|------------------------------|-----|
| Number of Units in Package 3 | 384 |
|------------------------------|-----|

| | |
|------------------|--------------------|
| Package 3 Height | 15.00 in (38.1 cm) |
|------------------|--------------------|

| | |
|-----------------|----------------------|
| Package 3 Width | 42.00 in (106.68 cm) |
|-----------------|----------------------|

| | |
|------------------|----------------------|
| Package 3 Length | 48.00 in (121.92 cm) |
|------------------|----------------------|

| | |
|------------------|-----------------------------|
| Package 3 Weight | 341.999 lb(US) (155.128 kg) |
|------------------|-----------------------------|

Contractual warranty

| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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 >](#)

[How we assess product sustainability >](#)



Transparency

Well-being performance

✓ Reach Free Of Svhc

✓ Toxic Heavy Metal Free

✓ Mercury Free

✓ Rohs Exemption Information Yes

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Compliant
[EU RoHS Declaration](#)

China Rohs Regulation [China RoHS declaration](#)
Pro-active China RoHS declaration (out of China RoHS legal scope)

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.

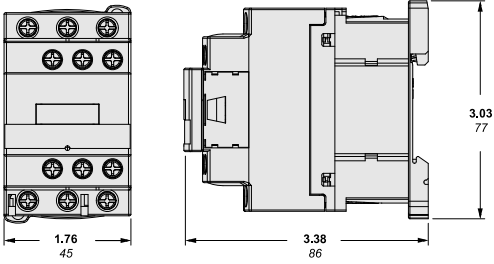
Circularity Profile [End of Life Information](#)

California Proposition 65 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

Technical Illustration

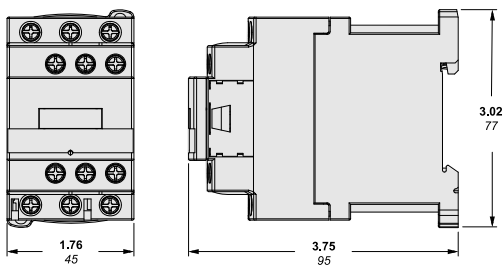
Dimensions

CONTACTOR WITH AC COIL



in.
mm

CONTACTOR WITH DC COIL



All dimensions are approximate. Also refer to technical drawings and documentation.

Offer Marketing Illustration

Product benefits / Features



The image shows a TeSys Deca contactor, a black industrial electrical component. It features a green label with the Schneider logo and 'TeSys Deca' branding. The contactor has several terminals on top and bottom, labeled with numbers and letters like '13 NO', '22 NC', 'A1', '14 NO', '23 NC', 'A2', '24', '4', and '6'. A QR code is visible on the bottom left of the device.

TeSys Deca Contactors

Technical Benefits

- Deca green delivers a consistent low consumption range of contactors from 9 A to 80 A.
- Covers control voltage from 24 to 250 V, with same coils for AC and DC.
- Designed to meet the requirements of industrial and HVAC applications
- With IEC60335-1 compliance, improved fire resistance, and dust-proof auxiliaries
- Suitable for safety applications thanks to mechanically linked contacts and mirror contacts
- Outstanding breaking/making capacity up to 20 In with PLC direct connection

Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features

TeSys Deca Contactors

 **Reliable**
Multi-standard solutions, high reliability, long mechanical and electrical durability for different sizes, and the most complete accessories.

 **Energy efficiency**
These electronic-coil contactors require up to 80 % less energy than electro-mechanical contactors.

 **Universal**
Multi standards certified (IEC, UL, CSA, CCC, EAC, Marine), Green Premium compliant (RoHS/REACH).

