Product data sheet

Specifications





contactor, TeSys F, 3P(3NO), AC-3, <=440V 780A, coil 110V AC

LC1F780F7

Product availability: Non-Stock - Not normally stocked in distribution facility

Price*: 7,788.00 USD

Main

| Range | TeSys |
|--------------------------------|---------------------------------------------------------------------------------------------------|
| Range Of Product | TeSys F |
| Product Or Component Type | Contactor |
| Device Short Name | LC1F |
| Contactor Application | Resistive load Motor control |
| Utilisation Category | AC-4 AC-1 AC-3 |
| Poles Description | 3P |
| [Ue] Rated Operational Voltage | <= 1000 V AC 50/60 Hz <= 460 V DC |
| [Uc] Control Circuit Voltage | 110 V AC 40400 Hz |
| [le] Rated Operational Current | 1600 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 780 A (at <131 °F (55 °C)) at <= 440 V AC AC-3 |

Complementary

| [Uimp] Rated Impulse Withstand Voltage | 8 kV |
|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ith] Conventional Free Air Thermal Current | 1600 A (at 104 °F (40 °C)) |
| Rated Breaking Capacity | 6240 A conforming to IEC 60947-4-1 |
| [Icw] Rated Short-Time Withstand Current | 3000 A 104 °F (40 °C) - 3 min 6250 A 104 °F (40 °C) - 10 s 5600 A 104 °F (40 °C) - 30 s 4600 A 104 °F (40 °C) - 1 min 2200 A 104 °F (40 °C) - 10 min |
| Associated Fuse Rating | 1600 A gG at <= 440 V 800 A aM at <= 440 V |
| Average Impedance | 0.1 mOhm - Ith 1600 A 50 Hz |
| [Ui] Rated Insulation Voltage | 1000 V IEC 60947-4-1 1500 V VDE 0110 group C |
| Power Dissipation Per Pole | 250 W AC-1 60 W AC-3 |
| Overvoltage Category | III |
| Power 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.

| Motor Power Kw | 450 kW at 1000 V AC 50/60 Hz (AC-3) 400 kW at 380400 V AC 50/60 Hz (AC-3) | |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
| | 425 kW at 415 V AC 50/60 Hz (AC-3) | |
| | 425 kW at 440 V AC 50/60 Hz (AC-3) 450 kW at 500 V AC 50/60 Hz (AC-3) | |
| | 475 kW at 660690 V AC 50/60 Hz (AC-3) | |
| | 220 kW at 220230 V AC 50/60 Hz (AC-3) | |
| Control Circuit Voltage Limits | 110 kW at 400 V AC 50/60 Hz (AC-4) Operational 0.851.1 Uc 40400 Hz 131 °F (55 °C)) | |
| | Drop-out 0.20.4 Uc 40400 Hz 131 °F (55 °C)) | |
| Mechanical Durability | 5 Mcycles | |
| nrush Power In Va | 2100 VA, 40400 Hz 0.9 68 °F (20 °C)) | |
| Hold-In Power Consumption In Va | 50 VA, 40400 Hz 0.9 68 °F (20 °C)) | |
| Maximum Operating Rate | 600 cyc/h 131 °F (55 °C) | |
| Operating Time | 4080 ms closing 130230 ms opening | |
| Connections - Terminals | Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible without cable end | |
| | Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)flexible without cable end | |
| | Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)flexible with cable end | |
| | Control circuit screw clamp terminals 2 0.000.00 in² (12.5 mm²)flexible with cable end | |
| | Control circuit screw clamp terminals 1 0.000.01 in² (14 mm²)solid without cable end | |
| | Control circuit screw clamp terminals 2 0.000.01 in² (14 mm²)solid without cable end | |
| | Power circuit bar 2 100 x 5 mm Power circuit bolted connection | |
| Tightening Torque | Control circuit 10.62 lbf.in (1.2 N.m) Power circuit 513.34 lbf.in (58 N.m) | |
| Mounting Support | Plate | |
| Heat Dissipation | 44 W | |
| Motor Power Range | 250500 kW 380440 V 3 phase | |
| | 110220 kW 200240 V 3 phase 250500 kW 480500 V 3 phase | |
| Motor Starter Type | Direct on-line contactor | |
| Contactor Coil Voltage | 110 V AC standard 120 V AC standard | |
| | | |
| Standards | EN 60947-1 | |
| Standards | JIS C8201-4-1 | |
| Standards | | |
| Standards | JIS C8201-4-1 IEC 60947-4-1 | |
| | JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 | |
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| | JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 UL RINA ABS CB RMRoS | |
| | JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 UL RINA ABS CB RMRoS CSA | |
| | JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 UL RINA ABS CB RMRoS CSA LROS (Lloyds register of shipping) | |
| | JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 UL RINA ABS CB RMRoS CSA LROS (Lloyds register of shipping) DNV BV | |
| Product Certifications | JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 UL RINA ABS CB RMRoS CSA LROS (Lloyds register of shipping) DNV BV UKCA | |
| Standards Product Certifications Compatibility Code Control Circuit Type | JIS C8201-4-1 IEC 60947-4-1 IEC 60947-1 EN 60947-4-1 UL RINA ABS CB RMRoS CSA LROS (Lloyds register of shipping) DNV BV | |

Environment

Ip Degree Of Protection

IP20 front face with shrouds IEC 60529

IP20 front face with shrouds VDE 0106

| Protective Treatment | тн |
|----------------------------------------------------------|--------------------------------------|
| Ambient Air Temperature For Operation | 23131 °F (-555 °C) |
| Ambient Air Temperature For Storage | -76176 °F (-6080 °C) |
| Permissible Ambient Air Temperature Around The Device | -40158 °F (-4070 °C) |
| Height | 17.09 in (434 mm) |
| Width | 27.64 in (702 mm) |
| Depth | 10.04 in (255 mm) |
| Operating Altitude | 9842.52 ft (3000 m) without derating |
| Net Weight | 87.08 lb(US) (39.5 kg) |

Ordering and shipping details

| Category | US10I1222336 |
|-------------------|---------------|
| Discount Schedule | 0112 |
| Gtin | 3389110227246 |
| Returnability | No |
| Country Of Origin | CZ |

Packing Units

| Unit Type Of Package 1 | PCE |
|------------------------------------------------------|--------------------------|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 15.75 in (40.0 cm) |
| Package 1 Width | 17.52 in (44.5 cm) |
| Package 1 Length | 37.40 in (95.0 cm) |
| Package 1 Weight | 125.66 lb(US) (57.0 kg) |
| | |
| Unit Type Of Package 2 | PAL |
| Unit Type Of Package 2 Number Of Units In Package 2 | PAL 2 |
| | |
| Number Of Units In Package 2 | 2 |
| Number Of Units In Package 2 Package 2 Height | 2 76.77 in (195.0 cm) |

Contractual warranty

Warranty 18 months

Sustainability Screen Premium

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



Mercury Free



Rohs Exemption Information

Yes

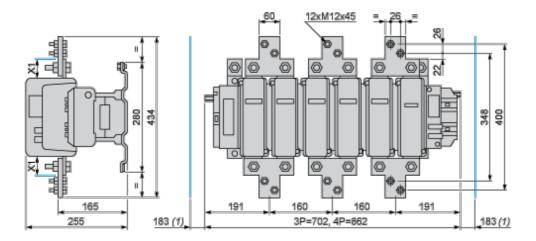
Certifications & Standards

| California Proposition 65 | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov | |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Circularity Profile | End of Life Information | |
| Weee | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. | |
| Environmental Disclosure | Product Environmental Profile | |
| China Rohs Regulation | China RoHS declaration Product out of China RoHS scope. Substance declaration for your information. | |
| Eu Rohs Directive | Compliant with Exemptions | |
| Reach Regulation | REACh Declaration | |

Dimensions Drawings

Dimensions and Drawings

LC1 F780

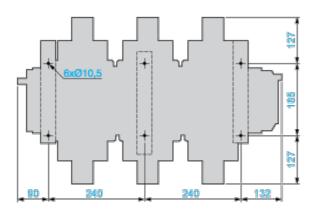


(1) Minimum distance required for coil removal.

NOTE: X1 (mm) = Minimum electrical clearance according to operating voltage and breaking capacity.

| Voltage | 200500 V | 6901000 V |
|---------|----------|-----------|
| X1 (mm) | 30 | 35 |

Fixing centers of LC1 F780

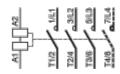


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Connections and Schema

Connections and Schema



LC1 F780 ~ or =

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Motor Starter BOM Motor Starter BOM