

# Product data sheet

Specifications



## Contactors, TeSys F, 3P(3NO), AC-3 <=440V 225A, 600V AC coil

LC1F225X7

**Product availability: Stock - Normally stocked in distribution facility**

## Main

|                                |  |
|--------------------------------|--|
| Range                          | TeSys  |
| Range of Product               | TeSys F  |
| Product or Component Type      | Contactors   |
| Device short name              | LC1F   |
| Contactors application         | Motor control<br>Resistive load  |
| Utilisation category           | AC-1<br>AC-4<br>AC-3   |
| Poles description              | 3P   |
| [Ue] rated operational voltage | <= 460 V DC<br><= 690 V AC 50/60 Hz  |
| [Uc] control circuit voltage   | 600 V AC 40...400 Hz   |
| [Ie] rated operational current | 315 A (at <104 °F (40 °C)) at <= 440 V AC-1<br>225 A (at <131 °F (55 °C)) at <= 440 V AC-3 |

## Complementary

|   |   |
|---|---|
| [Uimp] rated impulse withstand voltage      | 8 kV  |
| [Ith] conventional free air thermal current | 315 A (at 104 °F (40 °C))   |
| Rated breaking capacity                     | 1800 A conforming to IEC 60947-4-1  |
| [Icw] rated short-time withstand current    | 1800 A 104 °F (40 °C) - 10 s<br>1000 A 104 °F (40 °C) - 30 s<br>850 A 104 °F (40 °C) - 1 min<br>560 A 104 °F (40 °C) - 3 min<br>440 A 104 °F (40 °C) - 10 min |
| Associated fuse rating                      | 315 A gG at <= 440 V<br>250 A aM at <= 440 V  |
| Average impedance                           | 0.32 mOhm - Ith 315 A 50 Hz   |
| [Ui] rated insulation voltage               | 1000 V IEC 60947-4-1<br>1500 V VDE 0110 group C   |
| Power dissipation per pole                  | 32 W AC-1<br>16 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.

|  |  |
|--|--|
| <b>Motor power kW</b>                  | 110 kW at 380...400 V AC 50/60 Hz (AC-3)<br>110 kW at 415 V AC 50/60 Hz (AC-3)<br>110 kW at 440 V AC 50/60 Hz (AC-3)<br>129 kW at 500 V AC 50/60 Hz (AC-3)<br>129 kW at 660...690 V AC 50/60 Hz (AC-3)<br>63 kW at 220...230 V AC 50/60 Hz (AC-3)<br>40 kW at 400 V AC 50/60 Hz (AC-4)   |
| <b>Control circuit voltage limits</b>  | Operational 0.85...1.1 Uc 40...400 Hz 131 °F (55 °C))<br>Drop-out 0.2...0.55 Uc 40...400 Hz 131 °F (55 °C))  |
| <b>Mechanical durability</b>           | 10 Mcycles   |
| <b>Inrush power in VA</b>              | 950...1180 VA, 40...400 Hz 0.9 68 °F (20 °C))  |
| <b>Hold-in power consumption in VA</b> | 8.9...10.9 VA, 40...400 Hz 0.9 68 °F (20 °C))  |
| <b>Maximum operating rate</b>          | 1200 cyc/h 131 °F (55 °C)  |
| <b>Operating time</b>                  | 35 ms closing at Uc)<br>130 ms opening at Uc)  |
| <b>Connections - terminals</b>         | Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible without cable end<br>Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )flexible with cable end<br>Control circuit screw clamp terminals 2 0.002...0.004 in <sup>2</sup> (1...2.5 mm <sup>2</sup> )flexible with cable end<br>Control circuit screw clamp terminals 1 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Control circuit screw clamp terminals 2 0.002...0.006 in <sup>2</sup> (1...4 mm <sup>2</sup> )solid without cable end<br>Power circuit bar 2 32 x 4 mm<br>Power circuit lugs-ring terminals 1 0.3 in <sup>2</sup> (185 mm <sup>2</sup> )<br>Power circuit connector 1 0.3 in <sup>2</sup> (185 mm <sup>2</sup> )<br>Power circuit bolted connection |
| <b>Tightening torque</b>               | Control circuit 10.6 lbf.in (1.2 N.m)<br>Power circuit 309.8 lbf.in (35 N.m)   |
| <b>Mounting Support</b>                | Plate  |
| <b>Heat dissipation</b>                | 8...9.8 W  |
| <b>motor power range</b>               | 55...100 kW 200...240 V 3 phase<br>110...220 kW 480...500 V 3 phase<br>110...220 kW 380...440 V 3 phase  |
| <b>Motor starter type</b>              | Direct on-line contactor   |
| <b>Contactors coil voltage</b>         | 600 V AC standard  |
| <b>Standards</b>                       | IEC 60947-1<br>JIS C8201-4-1<br>EN 60947-1<br>IEC 60947-4-1<br>EN 60947-4-1  |
| <b>Product Certifications</b>          | RINA<br>BV<br>CSA<br>UL<br>LROS (Lloyds register of shipping)<br>DNV<br>RMRoS<br>ABS<br>CB   |
| <b>Compatibility code</b>              | LC1F   |
| <b>Control circuit type</b>            | AC 40...400 Hz   |

## Environment

|                                |   |
|--------------------------------|---|
| <b>IP degree of protection</b> | IP20 front face with shrouds IEC 60529<br>IP20 front face with shrouds VDE 0106 |
|--------------------------------|---|

|   |                                      |
|---|--------------------------------------|
| Protective treatment                                  | TH                                   |
| Ambient Air Temperature for Operation                 | 23...131 °F (-5...55 °C)             |
| Ambient Air Temperature for Storage                   | -76...176 °F (-60...80 °C)           |
| Permissible ambient air temperature around the device | -40...158 °F (-40...70 °C)           |
| Height  | 7.8 in (197 mm)                      |
| Width   | 6.6 in (168.5 mm)                    |
| Depth   | 7.1 in (181 mm)                      |
| Operating altitude                                    | 9842.52 ft (3000 m) without derating |
| Net Weight  | 10.47 lb(US) (4.75 kg)               |

## Ordering and shipping details

|                   |               |
|-------------------|---------------|
| Category          | US10I1222336  |
| Discount Schedule | 0I12          |
| GTIN              | 3606481734204 |
| Returnability     | Yes           |
| Country of origin | CZ            |

## Packing Units

|                        |                          |
|------------------------|--------------------------|
| Unit Type of Package 1 | PCE                      |
| Nbr. of units in pkg.  | 1                        |
| Package 1 Height       | 8.300 in (21.082 cm)     |
| Package 1 Width        | 8.900 in (22.606 cm)     |
| Package 1 Length       | 9.50 in (24.13 cm)       |
| Package weight(Lbs)    | 11.601 lb(US) (5.262 kg) |

## Contractual warranty

|                      |    |
|----------------------|----|
| Warranty (in months) | 18 |
|----------------------|----|



## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle) 888

Environmental Disclosure [Product Environmental Profile](#)

## Use Better



### Materials and Substances

Packaging made with recycled cardboard Yes

Packaging without single use plastic No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards

[EU RoHS Directive](#) Compliant with Exemptions

SCIP Number B2d4179a-eb65-40a3-a1ef-d9a33060486f

REACH Regulation [REACH Declaration](#)

## Use Longer



### Lifetime extension

Repair No

## Use Again



### Repack and remanufacture

Circularity Profile [End of Life Information](#)

Take-back No

WEEE Label  The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.