# Product datasheet

Specifications

## TeSys F reversing contactor - 3P(3 NO) AC-3 <= 440 V 115 A 220 V AC 40...400 Hz

LC2F115M7

Discontinued on: 11 Nov 2023

End-of-service on: 11 Nov 2025

Discontinued

## Main

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|---|---|
| **Range** | TeSys |
| **Product name** | TeSys F |
| **Product or component type** | Reversing contactor |
| **Device short name** | LC2F |
| **Contactor application** | Resistive load<br>Motor control |
| **Utilisation category** | AC-3<br>AC-1 |
| **Device presentation** | Preassembled with reversing power busbar |
| **Poles description** | 3P |
| **power pole contact composition** | 3 NO |
| **[Ue] rated operational voltage** | <= 1000 V AC 50/60 Hz<br><= 460 V DC |
| **[Ie] rated operational current** | 115 A (at <40 °C) at <= 440 V AC AC-3<br>200 A (at <40 °C) at <= 440 V AC AC-1 |
| **Motor power kW** | 55 kW at 380...400 V AC 50/60 Hz<br>59 kW at 415 V AC 50/60 Hz<br>59 kW at 440 V AC 50/60 Hz<br>65 kW at 1000 V AC 50/60 Hz<br>75 kW at 500 V AC 50/60 Hz<br>30 kW at 220...240 V AC 50/60 Hz<br>80 kW at 660...690 V AC 50/60 Hz |
| **Control circuit type** | AC at 40...400 Hz |
| **[Uc] control circuit voltage** | 220 V AC 40...400 Hz |
| **[Uimp] rated impulse withstand voltage** | 8 kV |
| **Overvoltage category** | III |
| **[Ith] conventional free air thermal current** | 200 A (at 40 °C) |
| **Irms rated making capacity** | 1150 A AC conforming to IEC 60947-4-1 |
| **Rated breaking capacity** | 920 A conforming to IEC 60947-4-1 |
| **[Icw] rated short-time withstand current** | 1100 A 40 °C - 10 s<br>640 A 40 °C - 30 s<br>520 A 40 °C - 1 min<br>400 A 40 °C - 3 min<br>320 A 40 °C - 10 min |
| **Associated fuse rating** | 125 A aM at <= 440 V<br>200 A gG at <= 440 V |
| **Average impedance** | 0.37 mOhm - Ith 200 A 50 Hz |

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| **[Ui] rated insulation voltage** | 1000 V conforming to IEC 60947-4-1<br>1500 V conforming to VDE 0110 group C |
| **Power dissipation per pole** | 5 W AC-3 |
| **Interlocking type** | Mechanical |
| **Mounting support** | Plate |
| **Standards** | EN 60947-1<br>JIS C8201-4-1<br>EN 60947-4-1<br>IEC 60947-4-1<br>IEC 60947-1 |
| **Product certifications** | ABS<br>UL<br>RMRoS<br>CB<br>RINA<br>LROS (Lloyds register of shipping)<br>CCC<br>CSA<br>DNV<br>UKCA |
| **Connections - terminals** | Power circuit: lugs-ring terminals 1 cable(s) 95 mm²<br>Power circuit: connector 1 cable(s) 95 mm²<br>Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²flexible without cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²flexible with cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…2.5 mm²flexible with cable end<br>Control circuit: screw clamp terminals 1 cable(s) 1…4 mm²solid without cable end<br>Control circuit: screw clamp terminals 2 cable(s) 1…4 mm²solid without cable end<br>Power circuit: bar 2 cable(s) - busbar cross section: 20 x 3 mm |
| **Tightening torque** | Power circuit: 10 N.m<br>Control circuit: 1.2 N.m |
| **Operating time** | 23...35 ms closing<br>5...15 ms opening |
| **Mechanical durability** | 10 Mcycles |
| **Maximum operating rate** | 2400 cyc/h 55 °C |

## Complementary

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|---|---|
| **Control circuit voltage limits** | Operational: 0.85...1.1 Uc at 50/60 Hz (at <55 °C)<br>Drop-out: 0.2...0.55 Uc at 50/60 Hz (at <55 °C) |
| **Inrush power in VA** | 550 VA 50 Hz cos phi 0.3 (at 20 °C)<br>660 VA 60 Hz cos phi 0.3 (at 20 °C) |
| **Hold-in power consumption in VA** | 45 VA 50 Hz cos phi 0.3 (at 20 °C)<br>55 VA 60 Hz cos phi 0.3 (at 20 °C) |
| **Heat dissipation** | 12…16 W |

## Environment

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|---|---|
| **IP degree of protection** | IP20 front face with shrouds conforming to IEC 60529<br>IP20 front face with shrouds conforming to VDE 0106 |
| **Protective treatment** | TH |
| **Ambient air temperature for operation** | -5…55 °C |
| **Ambient air temperature for storage** | -60…80 °C |
| **Permissible ambient air temperature around the device** | -40…70 °C |
| **Operating altitude** | 3000 m without derating |

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| **Mechanical robustness** | Vibrations contactor open: 2 Gn, 5...300 Hz<br>Vibrations contactor closed: 6 Gn, 5...300 Hz<br>Shocks contactor open: 9 Gn for 11 ms<br>Shocks contactor closed: 15 Gn for 11 ms |
| **Height** | 162 mm |
| **Width** | 345 mm |
| **Depth** | 171 mm |
| **Net weight** | 6.86 kg |

## Packing Units

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|---|---|
| **Unit Type of Package 1** | PCE |
| **Number of Units in Package 1** | 1 |
| **Package 1 Height** | 22.5 cm |
| **Package 1 Width** | 36.0 cm |
| **Package 1 Length** | 53.0 cm |
| **Package 1 Weight** | 9.55 kg |

## 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

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|---|---|
| Total lifecycle Carbon footprint | **935 kg CO2 eq.** |
| Environmental Disclosure | **Product Environmental Profile** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **135 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **1 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0.6 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **786 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **12 kg CO2 eq.** |

## Use Better

### Materials and Substances

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

## Use Longer

### Lifetime extension

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|---|---|
| Repair | **No** |

## Use Again

### Repack and remanufacture

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|---|---|
| Recyclability potential, in % | **91** |
| WEEE Label | **The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins** |