

Product data sheet

Specifications



Magnetic latching contactor, TeSys F, 3P(3NO), AC-3 <=440V 150A, 240VAC coil

CR1F150U7

Main

| | |
|--|---|
| Range | TeSys |
| Product Name | TeSys F |
| Product Or Component Type | Magnetic latching contactor |
| Device Short Name | CR1F |
| Device Application | Control |
| Contactor Application | Motor control Resistive load |
| Utilisation Category | AC-3 AC-4 AC-1 |
| Poles Description | 3P |
| Power Pole Contact Composition | 3 NO |
| [Ue] Rated Operational Voltage | 1000 V AC 25...200 Hz |
| [Ie] Rated Operational Current | 150 A (at <40 °C) at <= 440 V AC AC-3 250 A (at <40 °C) at <= 440 V AC AC-1 138 A (at <40 °C) at <= 440 V AC AC-4 |
| Motor Power Kw | 75 kW at 400 V AC 50/60 Hz (AC-4) |
| Control Circuit Type | AC at 50/60 Hz |
| [Uc] Control Circuit Voltage | 240 V AC 50/60 Hz |
| Irms Rated Making Capacity | 1700 A |
| Rated Breaking Capacity | 1500 A at 220...440 V 1200 A at 500 V 450 A at 1000 V 1100 A at 660/690 V |
| [Icw] Rated Short-Time Withstand Current | 1200 A 40 °C - 1 s 1200 A 40 °C - 5 s 1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 40 °C - 10 min |
| Associated Fuse Rating | 160 A aM at <= 440 V 250 A BS88 at <= 440 V 250 A gG at <= 440 V |
| Average Impedance | 0.45 mOhm - Ith 250 A 50 Hz |
| [Ui] Rated Insulation Voltage | 1000 V conforming to IEC 60158-1 1000 V conforming to IEC 60947-4 1000 V conforming to BS 775 1500 V conforming to VDE 0110 group C |
| Power Dissipation Per Pole | 6 W AC-3 18 W AC-1 |

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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|-------------------------|---|
| Standards | EN/IEC 60947-1 EN/IEC 60947-4-1 JIS C8201-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1 |
| Product Certifications | CB Scheme UL CSA EAC CE UKCA |
| Connections - Terminals | Lugs-ring terminals 1 cable(s) 120 mm² Connector 1 cable(s) 120 mm² Bars 2 cable(s) - busbar cross section: 25 x 3 mm Power circuit: bolted connection |
| Tightening Torque | 18 N.m |
| Operating Time | 35...40 ms latching 50...100 ms unlatching |
| Mechanical Durability | 1 Mcycles |
| Maximum Operating Rate | 120 cyc/h 40 °C |

Complementary

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|--------------------------------|---|
| Control Circuit Voltage Limits | Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc |
| Average Consumption | 1100 VA AC 50/60 Hz latching 7.3 VA AC 50/60 Hz unlatching |

Environment

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|---------------------------------------|-------------------------|
| Protective Treatment | TC |
| Ambient Air Temperature For Operation | -15...70 °C |
| Ambient Air Temperature For Storage | -60...80 °C |
| Operating Altitude | 3000 m without derating |
| Height | 170 mm |
| Width | 163.5 mm |
| Depth | 171 mm |
| Net Weight | 3.5 kg |

Packing Units

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|------------------------------|----------|
| Unit Type Of Package 1 | PCE |
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 21.0 cm |
| Package 1 Width | 20.0 cm |
| Package 1 Length | 24.5 cm |
| Package 1 Weight | 4.097 kg |

Contractual warranty

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|----------|-----------|
| 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 >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

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 |
| 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 |