

Product datasheet

Specifications



TeSys F magnetic latching contactor - 3P - 500 A - 110 V DC coil - low consum.

CR1F500FZ7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

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-1 AC-3 AC-4 |
| Poles description | 3P |
| power pole contact composition | 3 NO |
| [Ue] rated operational voltage | 1000 V AC 25...200 Hz |
| [Ie] rated operational current | 500 A (at <40 °C) at <= 440 V AC AC-3 700 A (at <40 °C) at <= 440 V AC AC-1 460 A (at <40 °C) at <= 440 V AC AC-4 |
| Motor power kW | 335 kW at 1000 V AC 50/60 Hz 335 kW at 690 V AC 50/60 Hz 335 kW at 500...660 V AC 50/60 Hz 295 kW at 440 V AC 50/60 Hz 280 kW at 415 V AC 50/60 Hz 250 kW at 380...400 V AC 50/60 Hz 147 kW at 220...230 V AC 50/60 Hz |
| motor power HP (UL / CSA) | 500 hp at 575...600 V AC 50/60 Hz for 3 phases motors 400 hp at 460...480 V AC 50/60 Hz for 3 phases motors 200 hp at 220...240 V AC 50/60 Hz for 3 phases motors 150 hp at 200...208 V AC 50/60 Hz for 3 phases motors |
| [Uc] control circuit voltage | 110 V DC low consumption |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ith] conventional free air thermal current | 700 A (at 40 °C) |
| Irms rated making capacity | 5000 A |
| Rated breaking capacity | 5000 A at 220...440 V 4500 A at 500 V 2500 A at 1000 V 3560 A at 660/690 V |

| | |
|---|---|
| [Icw] rated short-time withstand current | 4200 A 40 °C - 1 s 4200 A 40 °C - 5 s 4200 A 40 °C - 10 s 3200 A 40 °C - 30 s 2400 A 40 °C - 1 min 1500 A 40 °C - 3 min 1200 A 40 °C - 10 min |
| Associated fuse rating | 500 A aM at <= 440 V 800 A BS88 at <= 440 V 800 A gG at <= 440 V |
| Average impedance | 0.18 mOhm - Ith 700 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 | 45 W AC-3 88 W AC-1 |
| Connections - terminals | Lugs-ring terminals 2 cable(s) 240 mm ² Bars 2 cable(s) - busbar cross section: 40 x 5 mm |
| Tightening torque | 35 N.m |
| Operating time | 40...80 ms latching 50...100 ms unlatching |
| Mechanical durability | 1 Mcycles |
| Maximum operating rate | 120 cyc/h 40 °C |

Complementary

| | |
|---------------------------------------|--|
| Control circuit voltage limits | Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc |
| average consumption | 550 W DC latching 60 W DC unlatching |

Environment

| | |
|--|-------------------------|
| Protective treatment | TH |
| Ambient air temperature for operation | -15...70 °C |
| Ambient air temperature for storage | -60...80 °C |
| Operating altitude | 3000 m without derating |
| Height | 238 mm |
| Width | 233 mm |
| Depth | 232 mm |
| Net weight | 11.3 kg |

Packing Units

| | |
|-------------------------------------|----------|
| Unit Type of Package 1 | PCE |
| Number of Units in Package 1 | 1 |
| Package 1 Height | 25.5 cm |
| Package 1 Width | 28 cm |
| Package 1 Length | 33 cm |
| Package 1 Weight | 10.53 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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Better



Materials and Substances

[EU RoHS Directive](#)

Compliant

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

WEEE Label



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