

Product datasheet

Specifications



Bistable contactor CR1-F - 4P - AC-1 440V 500 A - coil 48 V

CR1F4004E7

! Discontinued

Main

| | |
|---|--|
| Range | TeSys |
| Product name | TeSys F |
| Product or component type | Magnetic latching contactor |
| Device short name | CR1F |
| Device application | Control |
| Contactor application | Resistive load Motor control |
| Utilisation category | AC-4 AC-1 AC-3 |
| Poles description | 4P |
| power pole contact composition | 4 NO |
| [Ue] rated operational voltage | 1000 V AC 25...200 Hz |
| [Ie] rated operational current | 400 A (at <40 °C) at <= 440 V AC AC-3 500 A (at <40 °C) at <= 440 V AC AC-1 370 A (at <40 °C) at <= 440 V AC AC-4 |
| Motor power kW | 185 kW at 1000 V AC 50/60 Hz 280 kW at 690 V AC 50/60 Hz 257 kW at 500...660 V AC 50/60 Hz 250 kW at 440 V AC 50/60 Hz 220 kW at 415 V AC 50/60 Hz 200 kW at 380...400 V AC 50/60 Hz 110 kW at 220...230 V AC 50/60 Hz |
| motor power HP (UL / CSA) | 300 hp at 575...600 V AC 50/60 Hz for 3 phases motors 250 hp at 460...480 V AC 50/60 Hz for 3 phases motors 125 hp at 220...240 V AC 50/60 Hz for 3 phases motors 100 hp at 200...208 V AC 50/60 Hz for 3 phases motors |
| [Uc] control circuit voltage | 48 V AC 50...400 Hz 48 V DC standard |
| [Uimp] rated impulse withstand voltage | 8 kV |
| [Ith] conventional free air thermal current | 500 A (at 40 °C) for power circuit |
| Irms rated making capacity | 4500 A for power circuit |
| Rated breaking capacity | 4000 A at 220...440 V for power circuit 3500 A at 500 V for power circuit 1200 A at 1000 V for power circuit 3000 A at 660/690 V for power circuit |

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

| | |
|---|---|
| [Icw] rated short-time withstand current | 3600 A 40 °C - 1 s 3600 A 40 °C - 5 s 3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min |
| Associated fuse rating | 400 aM at <= 440 V for power circuit 500 A BS88 at <= 440 V for power circuit 500 A gG at <= 440 V for power circuit |
| Average impedance | 0.28 mOhm - Ith 500 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 70 W AC-1 |
| Mounting support | Notched AM1-EC rail |
| Standards | VDE 0660 IEC 60947-4 JEM 1038 NF C 63-110 BS 5424 |
| Product certifications | BV LROS (Lloyds register of shipping) RINA CSA GL USSR UL ASE Veritas |
| Connections - terminals | Lugs-ring terminals 2 cable(s) 150 mm ² Bars 2 cable(s) - busbar cross section: 30 x 5 mm |
| Tightening torque | 35 N.m |
| Operating time | 40...75 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 | 1600 VA AC 50...400 Hz latching 16 VA AC 50...400 Hz unlatching 1600 VA DC latching 16 VA DC unlatching |

Environment

| | |
|--|---|
| IP degree of protection | IP20 front face conforming to IEC 60529 |
| 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 | 206 mm |
| Width | 261 mm |

| | |
|-------|--------|
| Depth | 219 mm |
|-------|--------|

| | |
|------------|---------|
| Net weight | 10.2 kg |
|------------|---------|

Packing Units

| | |
|------------------------|-----|
| Unit Type of Package 1 | PCE |
|------------------------|-----|

| | |
|------------------------------|---|
| Number of Units in Package 1 | 1 |
|------------------------------|---|

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 Longer



Lifetime extension

[Repair](#)

[No](#)