

# Product datasheet

Specifications



## TeSys F magnetic latching contactor - 3P(3 NO)- 185 A - 230 V & 110 V AC/DC coil

CR1F185PF7

⚠ 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<br>Resistive load                                                                                                                             |
| Utilisation category                     | AC-4<br>AC-3<br>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           | 185 A (at <40 °C) at <= 440 V AC AC-3<br>275 A (at <40 °C) at <= 440 V AC AC-1<br>170 A (at <40 °C) at <= 440 V AC AC-4                                     |
| Motor power kW                           | 90 kW at 400 V AC 50/60 Hz (AC-4)                                                                                                                           |
| [Uc] control circuit voltage             | 230 V AC 50...400 Hz<br>110 V AC 50...400 Hz<br>230 V DC<br>110 V DC                                                                                        |
| Irms rated making capacity               | 2100 A                                                                                                                                                      |
| Rated breaking capacity                  | 1800 A at 220...440 V<br>1600 A at 500 V<br>600 A at 1000 V<br>1200 A at 660/690 V                                                                          |
| [Icw] rated short-time withstand current | 1500 A 40 °C - 1 s<br>1500 A 40 °C - 5 s<br>1500 A 40 °C - 10 s<br>920 A 40 °C - 30 s<br>740 A 40 °C - 1 min<br>500 A 40 °C - 3 min<br>400 A 40 °C - 10 min |
| Associated fuse rating                   | 200 aM at <= 440 V<br>315 A BS88 at <= 440 V<br>315 A gG at <= 440 V                                                                                        |
| Average impedance                        | 0.36 mOhm - Ith 275 A 50 Hz                                                                                                                                 |
| [Ui] rated insulation voltage            | 1000 V conforming to IEC 60158-1<br>1000 V conforming to IEC 60947-4<br>1000 V conforming to BS 775<br>1500 V conforming to VDE 0110 group C                |

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

|                            |                                                                                                                                                                 |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power dissipation per pole | 12 W AC-3<br>26 W AC-1                                                                                                                                          |
| Connections - terminals    | Bars 2 cable(s) - busbar cross section: 25 x 3 mm<br>Lugs-ring terminals 1 cable(s) 150 mm²<br>Connector 1 cable(s) 150 mm²<br>Power circuit: bolted connection |
| Tightening torque          | 18 N.m                                                                                                                                                          |
| Operating time             | 35...40 ms latching<br>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<br>Unlatching: 0.85...1.1 Uc                                                             |
| average consumption            | 1750 VA AC 50...400 Hz latching<br>11 VA AC 50...400 Hz unlatching<br>1750 VA DC latching<br>11 VA DC unlatching |

## Environment

|                                       |                         |
|---------------------------------------|-------------------------|
| 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                                | 174 mm                  |
| Width                                 | 168.5 mm                |
| Depth                                 | 181 mm                  |
| Net weight                            | 4.6 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 >](#)

### 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 |