

# TeSys F magnetic latching contactor - 3P(3 NO) - 185 A - 48 V DC coil

CR1F185EZ7

! Discontinued on: Dec 30, 2019

#### (!) Discontinued

#### Main

| Mani                             |                                       |
|----------------------------------|---------------------------------------|
| Range                            | TeSys                                 |
| Product Name                     | TeSys F                               |
| Product Or Component Type        | Magnetic latching contactor           |
| Device Short Name                | CR1F                                  |
| Contactor Application            | Resistive load                        |
|                                  | Motor control                         |
| Utilisation Category             | AC-1                                  |
|                                  | AC-4                                  |
|                                  | AC-3                                  |
| Poles Description                | 3P                                    |
| Power Pole Contact Composition   | 3 NO                                  |
| [Ue] Rated Operational Voltage   | 1000 V AC 25200 Hz                    |
| [le] Rated Operational Current   | 185 A (at <40 °C) at <= 440 V AC AC-3 |
|                                  | 275 A (at <40 °C) at <= 440 V AC AC-1 |
|                                  | 170 A (at <40 °C) at <= 440 V AC AC-4 |
| Control Circuit Type             | DC low consumption                    |
| [Uc] Control Circuit Voltage     | 48 V DC                               |
| Irms Rated Making Capacity       | 2100 A                                |
| Rated Breaking Capacity          | 1800 A at 220440 V                    |
|                                  | 1600 A at 500 V                       |
|                                  | 600 A at 1000 V                       |
|                                  | 1200 A at 660/690 V                   |
| [Icw] Rated Short-Time Withstand | 1500 A 40 °C - 1 s                    |
| Current                          | 1500 A 40 °C - 5 s                    |
|                                  | 1500 A 40 °C - 10 s                   |
|                                  | 920 A 40 °C - 30 s                    |
|                                  | 740 A 40 °C - 1 min                   |
|                                  | 500 A 40 °C - 3 min                   |
|                                  | 400 A 40 °C - 10 min                  |
| Associated Fuse Rating           | 200 A aM at <= 440 V                  |
|                                  | 315 A BS88 at <= 440 V                |
|                                  | 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      |
|                                  | 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       | 12 W AC-3                             |
|                                  | 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 mm <sup>2</sup><br>Connector 1 cable(s) 150 mm <sup>2</sup> |
|-------------------------|---|
| Tightening Torque       | 18 N.m  |
| Operating Time          | 3540 ms latching<br>50100 ms unlatching   |
| Mechanical Durability   | 1 Mcycles   |
| Maximum Operating Rate  | 120 cyc/h 40 °C   |

# Complementary

| Control Circuit Voltage Limits | Latching: 0.851.1 Uc<br>Unlatching: 0.851.1 Uc |
|--------------------------------|--|
| Average Consumption            | 500 W DC latching<br>20 W DC unlatching        |

## **Environment**

| Protective Treatment                  | TC                      |
|---------------------------------------|-------------------------|
| Ambient Air Temperature For Operation | -1570 °C                |
| Ambient Air Temperature For Storage   | -6080 °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        |
| Package 1 Height             | 21 cm    |
| Package 1 Width              | 20 cm    |
| Package 1 Length             | 24 cm    |
| Package 1 Weight             | 5.117 kg |

## **Contractual warranty**

| Warranty | 18 months |
|----------|-----------|

### Sustainability

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

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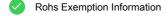




Transparency RoHS/REACh

## Well-being performance





Yes



Pvc Free

#### **Certifications & Standards**

| Eu Rohs Directive         | Compliant   |
|---------------------------|---|
|                           | EU RoHS Declaration   |
| 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 |