

# CR1F185M7

TeSys F magnetic latching contactor - 3P(3 NO) - 185 A - 220...230 V AC/DC coil



## 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<br>Motor control                                                                                                                                 |
| Utilisation category                     | AC-4<br>AC-1<br>AC-3                                                                                                                                            |
| 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)                                                                                                                               |
| Control circuit type                     | AC at 50...400 Hz<br>DC standard                                                                                                                                |
| [Uc] control circuit voltage             | 220...230 V AC 50...400 Hz<br>220...230 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 A 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                    |
| 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                                                                                                                                                 |

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

## 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

|                  |          |
|------------------|----------|
| Package 1 Weight | 5.075 kg |
| Package 1 Height | 2.100 dm |
| Package 1 width  | 2.000 dm |
| Package 1 Length | 2.400 dm |

## Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Compliant <a href="#">EU RoHS Declaration</a>                                                                               |
| Mercury free               | Yes                                                                                                                         |
| RoHS exemption information | <a href="#">Yes</a>                                                                                                         |
| China RoHS Regulation      | <a href="#">China RoHS Declaration</a>                                                                                      |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                                               |
| Circularity Profile        | <a href="#">End Of Life Information</a>                                                                                     |
| WEEE                       | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| PVC free                   | Yes                                                                                                                         |

## Contractual warranty

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