



Price\* : 1,876.17 GBP



## 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-3<br>AC-1<br>AC-4                                                                                                                                                                                                                     |
| 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<br>500 A (at <40 °C) at <= 440 V AC AC-1<br>370 A (at <40 °C) at <= 440 V AC AC-4                                                                                                                  |
| Motor power kW                              | 185 kW at 1000 V AC 50/60 Hz<br>280 kW at 690 V AC 50/60 Hz<br>257 kW at 500...660 V AC 50/60 Hz<br>250 kW at 440 V AC 50/60 Hz<br>220 kW at 415 V AC 50/60 Hz<br>200 kW at 380...400 V AC 50/60 Hz<br>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<br>250 hp at 460...480 V AC 50/60 Hz for 3 phases motors<br>125 hp at 220...240 V AC 50/60 Hz for 3 phases motors<br>100 hp at 200...208 V AC 50/60 Hz for 3 phases motors         |
| [Uc] control circuit voltage                | 415 V AC 50/60 Hz                                                                                                                                                                                                                        |
| [Uimp] rated impulse withstand voltage      | 8 kV                                                                                                                                                                                                                                     |
| [Ith] conventional free air thermal current | 500 A (at 40 °C) 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

|                                          |                                                                                                                                                                 |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Irms rated making capacity               | 4500 A for power circuit                                                                                                                                        |
| Rated breaking capacity                  | 4000 A at 220...440 V for power circuit<br>3500 A at 500 V for power circuit<br>1200 A at 1000 V for power circuit<br>3000 A at 660/690 V for power circuit     |
| [Icw] rated short-time withstand current | 3600 A 40 °C - 1 s<br>3600 A 40 °C - 5 s<br>3600 A 40 °C - 10 s<br>2400 A 40 °C - 30 s<br>1700 A 40 °C - 1 min<br>1200 A 40 °C - 3 min<br>1000 A 40 °C - 10 min |
| Associated fuse rating                   | 400 A aM at <= 440 V for power circuit<br>500 A BS88 at <= 440 V for power circuit<br>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<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               | 45 W AC-3<br>70 W AC-1                                                                                                                                          |
| Mounting support                         | Notched AM1-EC rail                                                                                                                                             |
| Standards                                | NF C 63-110<br>BS 5424<br>IEC 60947-4<br>VDE 0660<br>JEM 1038                                                                                                   |
| Product certifications                   | LROS (Lloyds register of shipping)<br>Veritas<br>GL<br>USSR<br>UL<br>BV<br>CSA<br>ASE<br>RINA                                                                   |
| Connections - terminals                  | Lugs-ring terminals 2 cable(s) 150 mm <sup>2</sup><br>Bars 2 cable(s) - busbar cross section: 30 x 5 mm                                                         |
| Tightening torque                        | 35 N.m                                                                                                                                                          |
| Operating time                           | 40...75 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            | 1600 VA AC 50...400 Hz latching<br>16 VA AC 50...400 Hz unlatching<br>1600 VA DC latching<br>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                          |
| Height                                | 206 mm                                  |
| Width                                 | 261 mm                                  |
| Depth                                 | 219 mm                                  |

|                |         |
|----------------|---------|
| Product weight | 10.2 kg |
|----------------|---------|

### Offer Sustainability

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                                                       |
| REACH Regulation           | <a href="#">REACH Declaration</a>                                                                                           |
| EU RoHS Directive          | Compliant<br><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><br>Product out of China RoHS scope. Substance declaration for your information       |
| 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 |

### Contractual warranty

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