

Price\* : 725.93 GBP



### 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	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-3 275 A (at <40 °C) at <= 440 V AC AC-1 170 A (at <40 °C) at <= 440 V AC AC-4
Motor power kW	100 kW at 1000 V AC 50/60 Hz 110 kW at 690 V AC 50/60 Hz 110 kW at 500...660 V AC 50/60 Hz 100 kW at 440 V AC 50/60 Hz 100 kW at 415 V AC 50/60 Hz 90 kW at 380...400 V AC 50/60 Hz 55 kW at 220...230 V AC 50/60 Hz
Motor power HP (UL / CSA)	150 hp at 575...600 V AC 50/60 Hz for 3 phases motors 125 hp at 460...480 V AC 50/60 Hz for 3 phases motors 60 hp at 220...240 V AC 50/60 Hz for 3 phases motors 50 hp at 200...208 V AC 50/60 Hz for 3 phases motors
[Uc] control circuit voltage	110 V DC low consumption
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	275 A (at 40 °C)
Irms rated making capacity	2100 A
Rated breaking capacity	1800 A at 220...440 V 1600 A at 500 V 600 A at 1000 V 1200 A at 660/690 V

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

[I <sub>cw</sub> ] rated short-time withstand current	1500 A 40 °C - 1 s 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 - I <sub>th</sub> 275 A 50 Hz
[U <sub>i</sub> ] 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 Lugs-ring terminals 1 cable(s) 150 mm <sup>2</sup> Connector 1 cable(s) 150 mm <sup>2</sup>
Tightening torque	18 N.m
Operating time	35...40 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 U <sub>c</sub> Unlatching: 0.85...1.1 U <sub>c</sub>
Average consumption	500 W DC latching 20 W DC unlatching

## Environment

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	174 mm
Width	168.5 mm
Depth	181 mm
Product weight	4.6 kg

## Contractual warranty

Warranty	18 months
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