

Product data sheet

Specifications



Bistable contactor CR1-F - 4P - AC-1 440V 700 A - coil 110 V

CR1F5004F7

⚠ 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 Resistive load
Utilisation Category	AC-3 AC-4 AC-1
Poles Description	4P
Power Pole Contact Composition	4 NO
[Ue] Rated Operational Voltage	1000 V AC 25...200 Hz
[Ie] Rated Operational Current	500 A (at <104 °F (40 °C)) at <= 440 V AC AC-3 700 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 460 A (at <104 °F (40 °C)) at <= 440 V AC AC-4
Motor Power Kw	335 kW at 1000 V AC 50/60 Hz 335 kW at 690 V AC 50/60 Hz 335 kW at 500...660 V AC 50/60 Hz 295 kW at 440 V AC 50/60 Hz 280 kW at 415 V AC 50/60 Hz 250 kW at 380...400 V AC 50/60 Hz 147 kW at 220...230 V AC 50/60 Hz
Motor Power Hp (UI / Csa)	500 hp at 575...600 V AC 50/60 Hz for 3 phase motors 400 hp at 460...480 V AC 50/60 Hz for 3 phase motors 200 hp at 220...240 V AC 50/60 Hz for 3 phase motors 150 hp at 200...208 V AC 50/60 Hz for 3 phase motors
[Uc] Control Circuit Voltage	110 V AC 50...400 Hz 110 V DC standard
[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	700 A (at 104 °F (40 °C)) for power circuit
Irms Rated Making Capacity	5000 A for power circuit
Rated Breaking Capacity	5000 A at 220...440 V for power circuit 4500 A at 500 V for power circuit 2500 A at 1000 V for power circuit 3560 A at 660/690 V for power circuit

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

[Icw] Rated Short-Time Withstand Current	4200 A 104 °F (40 °C) - 1 s 4200 A 104 °F (40 °C) - 5 s 4200 A 104 °F (40 °C) - 10 s 3200 A 104 °F (40 °C) - 30 s 2400 A 104 °F (40 °C) - 1 min 1500 A 104 °F (40 °C) - 3 min 1200 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	500 A aM at <= 440 V for power circuit 800 A BS88 at <= 440 V for power circuit 800 A gG at <= 440 V for power circuit
Average Impedance	0.18 mOhm - lth 700 A 50 Hz
[Ui] Rated Insulation Voltage	1000 V IEC 60158-1 1000 V IEC 60947-4 1000 V BS 775 1500 V VDE 0110 group C
Power Dissipation Per Pole	45 W AC-3 88 W AC-1
Mounting Support	Notched AM1-EC rail
Standards	NF C 63-110 BS 5424 IEC 60947-4 JEM 1038 VDE 0660
Product Certifications	CSA USSR ASE Veritas UL GL RINA BV LROS (Lloyds register of shipping)
Connections - Terminals	lugs-ring terminals 2 0.37 in² (240 mm²) bars 2 40 x 5 mm
Tightening Torque	309.78 lbf.in (35 N.m)
Operating Time	40...80 ms latching 50...100 ms unlatching
Mechanical Durability	1 Mcycles
Maximum Operating Rate	120 cyc/h 104 °F (40 °C)

Complementary

Control Circuit Voltage Limits	Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc
Average Consumption	1800 VA AC 50...400 Hz latching 13 VA AC 50...400 Hz unlatching 1800 VA DC latching 13 VA DC unlatching

Environment

Ip Degree Of Protection	IP20 front face IEC 60529
Protective Treatment	TH
Ambient Air Temperature For Operation	5...158 °F (-15...70 °C)
Ambient Air Temperature For Storage	-76...176 °F (-60...80 °C)
Operating Altitude	9842.52 ft (3000 m) without derating
Height	9.37 in (238 mm)
Width	11.34 in (288 mm)

Depth	9.13 in (232 mm)
Net Weight	28.44 lb(US) (12.9 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
Gtin	3389110548778
Returnability	No
Country Of Origin	CZ

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Contractual warranty

Warranty	18 months
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