

Product data sheet

Specifications



Bistable contactor CR1-F - 4P - AC-1 440V 500 A - coil 48 V

CR1F4004E7

⚠ Discontinued

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	4P
Power Pole Contact Composition	4 NO
[Ue] Rated Operational Voltage	1000 V AC 25...200 Hz
[Ie] Rated Operational Current	400 A (at <104 °F (40 °C)) at <= 440 V AC AC-3 500 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 370 A (at <104 °F (40 °C)) at <= 440 V AC AC-4
Motor Power Kw	185 kW at 1000 V AC 50/60 Hz 280 kW at 690 V AC 50/60 Hz 257 kW at 500...660 V AC 50/60 Hz 250 kW at 440 V AC 50/60 Hz 220 kW at 415 V AC 50/60 Hz 200 kW at 380...400 V AC 50/60 Hz 110 kW at 220...230 V AC 50/60 Hz
Motor Power Hp (UI / Csa)	300 hp at 575...600 V AC 50/60 Hz for 3 phase motors 250 hp at 460...480 V AC 50/60 Hz for 3 phase motors 125 hp at 220...240 V AC 50/60 Hz for 3 phase motors 100 hp at 200...208 V AC 50/60 Hz for 3 phase motors
[Uc] Control Circuit Voltage	48 V AC 50...400 Hz 48 V DC standard
[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	500 A (at 104 °F (40 °C)) for power circuit
Irms Rated Making Capacity	4500 A for power circuit
Rated Breaking Capacity	4000 A at 220...440 V for power circuit 3500 A at 500 V for power circuit 1200 A at 1000 V for power circuit 3000 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	3600 A 104 °F (40 °C) - 1 s 3600 A 104 °F (40 °C) - 5 s 3600 A 104 °F (40 °C) - 10 s 2400 A 104 °F (40 °C) - 30 s 1700 A 104 °F (40 °C) - 1 min 1200 A 104 °F (40 °C) - 3 min 1000 A 104 °F (40 °C) - 10 min
Associated Fuse Rating	400 A aM at <= 440 V for power circuit 500 A BS88 at <= 440 V for power circuit 500 A gG at <= 440 V for power circuit
Average Impedance	0.28 mOhm - lth 500 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 70 W AC-1
Mounting Support	Notched AM1-EC rail
Standards	VDE 0660 IEC 60947-4 JEM 1038 NF C 63-110 BS 5424
Product Certifications	BV LROS (Lloyds register of shipping) RINA CSA GL USSR UL ASE Veritas
Connections - Terminals	lugs-ring terminals 2 0.23 in² (150 mm²) bars 2 30 x 5 mm
Tightening Torque	309.78 lbf.in (35 N.m)
Operating Time	40...75 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	1600 VA AC 50...400 Hz latching 16 VA AC 50...400 Hz unlatching 1600 VA DC latching 16 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	8.11 in (206 mm)
Width	10.28 in (261 mm)

Depth	8.62 in (219 mm)
Net Weight	22.49 lb(US) (10.2 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
Gtin	3389110548600
Returnability	No

Packing Units

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

Contractual warranty

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