

Product data sheet

Specifications



TeSys F magnetic latching contactor - 4P - 700 A - 48 V DC coil - low consum.

CR1F5004EZ7

! 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-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	48 V DC low consumption
[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	700 A (at 104 °F (40 °C))
Irms Rated Making Capacity	5000 A
Rated Breaking Capacity	5000 A at 220...440 V 4500 A at 500 V 2500 A at 1000 V 3560 A at 660/690 V

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 800 A BS88 at <= 440 V 800 A gG at <= 440 V
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
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	550 W DC latching 60 W DC unlatching

Environment

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	l12
Gtin	3389110548754
Returnability	No

Packing Units

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

Warranty	18 months
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