

Product data sheet

Specifications



TeSys F magnetic latching contactor - 3P - 630 A - 48 V DC coil - low consum.

CR1F630EZ7

! 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	3P
Power Pole Contact Composition	3 NO
[Ue] Rated Operational Voltage	1000 V AC 25...200 Hz
[Ie] Rated Operational Current	630 A (at <104 °F (40 °C)) at <= 440 V AC AC-3 1000 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 560 A (at <104 °F (40 °C)) at <= 440 V AC AC-4
Motor Power Kw	450 kW at 1000 V AC 50/60 Hz 450 kW at 690 V AC 50/60 Hz 400 kW at 500...660 V AC 50/60 Hz 400 kW at 440 V AC 50/60 Hz 375 kW at 415 V AC 50/60 Hz 335 kW at 380...400 V AC 50/60 Hz 200 kW at 220...230 V AC 50/60 Hz
Motor Power Hp (UI / Csa)	800 hp at 575...600 V AC 50/60 Hz for 3 phase motors 600 hp at 460...480 V AC 50/60 Hz for 3 phase motors 300 hp at 220...240 V AC 50/60 Hz for 3 phase motors 250 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	1000 A (at 104 °F (40 °C))
Irms Rated Making Capacity	6740 A
Rated Breaking Capacity	6300 A at 220...440 V 5400 A at 500 V 3200 A at 1000 V 4600 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	4400 A 104 °F (40 °C) - 30 s 3400 A 104 °F (40 °C) - 1 min 2200 A 104 °F (40 °C) - 3 min 1600 A 104 °F (40 °C) - 10 min 5050 A 104 °F (40 °C) - 1 s 5050 A 104 °F (40 °C) - 5 s 5050 A 104 °F (40 °C) - 10 s
Associated Fuse Rating	630 A aM at <= 440 V 1000 A BS88 at <= 440 V 1000 A gG at <= 440 V
Average Impedance	0.12 mOhm - lth 1000 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	48 W AC-3 120 W AC-1
Connections - Terminals	bars 2 60 x 5 mm
Tightening Torque	513.34 lbf.in (58 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	620 W DC latching 45 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	11.97 in (304 mm)
Width	12.17 in (309 mm)
Depth	10.04 in (255 mm)
Net Weight	41.01 lb(US) (18.6 kg)

Ordering and shipping details

Category	22331-CTR,F-LINE,DC,OPEN,NONREV
Discount Schedule	I12
Gtin	3389110548822
Returnability	No

Packing Units

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

Contractual warranty

Warranty	18 months
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