Product data sheet

Specifications

TeSys F magnetic latching contactor - 4P - 500 A - 48 V DC coil - low consum.

CR1F4004EZ7

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-1 AC-4
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 (UL / 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 DC low consumption
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	500 A (at 104 °F (40 °C))
Irms rated making capacity	4500 A
Rated breaking capacity	4000 A at 220...440 V 3500 A at 500 V 1200 A at 1000 V 3000 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.

[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 500 A BS88 at <= 440 V 500 A gG at <= 440 V
Average impedance	0.28 mOhm - Ith 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
Connections - terminals	lugs-ring terminals 2 0.2 in² (150 mm²) bars 2 30 x 5 mm
Tightening torque	309.8 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	500 W DC latching 70 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	8.1 in (206 mm)
Width	10.3 in (261 mm)
Depth	8.6 in (219 mm)
Net Weight	22.5 lb(US) (10.2 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110548594
Returnability	No

Packing Units

Unit Type of Package 1	PCE

Nbr. of units in pkg.	1

Contractual warranty

Warranty (in months)	18

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Environmental footprint

Environmental Disclosure	Product Environmental Profile

Use Longer

Lifetime extension

Repair	No