

Product data sheet

Specifications



TeSys F magnetic latching contactor - 3P(3 NO) - 500 A - 48 V DC coil

CR1F500EZ7

⚠ Discontinued

Main

Range	TeSys
Product name	TeSys F
Product or Component Type	Magnetic latching contactor
Device short name	CR1F
Contactor application	Resistive load Motor control
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
power pole contact composition	3 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
Control circuit type	DC low consumption
[Uc] control circuit voltage	48 V DC
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
[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 - Ith 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

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

Connections - terminals	lugs-ring terminals 2 0.4 in ² (240 mm ²) bars 2 40 x 5 mm
Tightening torque	309.8 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	TC
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	9.4 in (238 mm)
Width	9.2 in (233 mm)
Depth	9.1 in (232 mm)
Net Weight	24.9 lb(US) (11.3 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110548679
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](#)