Product data sheet

Specifications

Green Premium™

Bistable contactor CR1-F - 3P - AC-3 440V 500 A - coil 380..400 V

CR1F500Q7

Discontinued on: Jun 30, 2023

Discontinued

Main

Range	TeSys
Product Name	TeSys F
Product Or Component Type	Magnetic latching contactor
Device Short Name	CR1F
Device Application	Control
Contactor Application	Motor control Resistive load
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
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 (Ul / 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	380...400 V AC 50/60 Hz
[Uimp] Rated Impulse Withstand Voltage	8 kV
[Ith] Conventional Free Air Thermal Current	700 A (at 104 °F (40 °C)) for power circuit
Irms Rated Making Capacity	5000 A for power circuit
Rated Breaking Capacity	5000 A at 220...440 V for power circuit 4500 A at 500 V for power circuit 2500 A at 1000 V for power circuit 3560 A at 660/690 V for power circuit

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

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	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 for power circuit 800 A BS88 at <= 440 V for power circuit 800 A gG at <= 440 V for power circuit
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
Mounting Support	Notched AM1-EC rail
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 JIS C8201-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1
Product Certifications	CB Scheme UL CSA EAC CE UKCA
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	1800 VA AC 50...400 Hz latching 13 VA AC 50...400 Hz unlatching 1800 VA DC latching 13 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	9.37 in (238 mm)
Width	9.17 in (233 mm)
Depth	9.13 in (232 mm)

Net Weight	24.91 lb(US) (11.3 kg)

Ordering and shipping details

Category	22336-CTR,F-LINE,AC,OPEN,NONREV
Discount Schedule	I12
Gtin	3389110548730
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	10.63 in (27.0 cm)
Package 1 Width	11.81 in (30.0 cm)
Package 1 Length	11.81 in (30.0 cm)
Package 1 Weight	25.97 lb(US) (11.78 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information	Yes

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Compliant with Exemptions
China Rohs Regulation	China RoHS declaration Product out of China RoHS scope. Substance declaration for your information.
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information