

Product data sheet

Specifications



Magnetic latching contactor, TeSys F, 3P(3NO), AC-3 ≤440V 630A, 220-230V DC coil

CR1F630M7

Product availability: Non-Stock - Not normally stocked in distribution facility

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-4 AC-3 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	335 kW at 400 V AC 50/60 Hz (AC-4)
Control circuit type	AC 50...400 Hz DC standard
[Uc] control circuit voltage	220...230 V AC 50...400 Hz 220...230 V DC
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
[Icw] rated short-time withstand current	5.05 kA 104 °F (40 °C) - 1 s 5.05 kA 104 °F (40 °C) - 5 s 5.05 kA 104 °F (40 °C) - 10 s 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
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 - Ith 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

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

Power dissipation per pole	48 W AC-3 120 W AC-1
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	bars 2 60 x 5 mm Power circuit bolted connection
Tightening torque	513.3 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	11 VA AC 50...400 Hz unlatching 2300 VA AC 50...400 Hz latching 11 VA DC unlatching 2300 VA DC latching

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	12.0 in (304 mm)
Width	12.2 in (309 mm)
Depth	10.04 in (255 mm)
Net Weight	41.006 lb(US) (18.6 kg)

Ordering and shipping details

Category	US10I1222331
Discount Schedule	0I12
GTIN	3389110548907
Returnability	No
Country of origin	CZ

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1

Package 1 Height	11.61 in (29.500 cm)
Package 1 Width	14.37 in (36.500 cm)
Package 1 Length	17.91 in (45.500 cm)
Package weight(Lbs)	38.495 lb(US) (17.461 kg)
Unit Type of Package 2	P06
Number of Units in Package 2	2
Package 2 Height	29.53 in (75.000 cm)
Package 2 Width	31.50 in (80.000 cm)
Package 2 Length	23.62 in (60.000 cm)
Package 2 Weight	94.627 lb(US) (42.922 kg)

Contractual warranty

Warranty	18 months
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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	
Carbon footprint (kg CO2 eq, Total Life cycle)	4425
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
EU RoHS Directive	Compliant with Exemptions
REACH Regulation	REACH Declaration
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Use Again

Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

Technical Illustration

Assembly's dimensions

