

Product datasheet

Specifications



TeSys F magnetic latching contactor - 3P - 630 A - 220 V/24 V AC/DC coil

CR1F630MB7

! 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-1 AC-4 AC-3
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 <40 °C) at <= 440 V AC AC-3 1000 A (at <40 °C) at <= 440 V AC AC-1 560 A (at <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 (UL / CSA)	800 hp at 575...600 V AC 50/60 Hz for 3 phases motors 600 hp at 460...480 V AC 50/60 Hz for 3 phases motors 300 hp at 220...240 V AC 50/60 Hz for 3 phases motors 250 hp at 200...208 V AC 50/60 Hz for 3 phases motors
[Uc] control circuit voltage	220 V AC 50/60 Hz special latching 220 V AC 400 Hz special latching 220 V DC special latching 24 V AC 50/60 Hz special unlatching 24 V AC 400 Hz special unlatching 24 V DC special unlatching
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1000 A (at 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

[Icw] rated short-time withstand current	4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min 5050 A 40 °C - 1 s 5050 A 40 °C - 5 s 5050 A 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 - Ith 1000 A 50 Hz
[Ui] rated insulation voltage	1000 V conforming to IEC 60158-1 1000 V conforming to IEC 60947-4 1000 V conforming to BS 775 1500 V conforming to VDE 0110 group C
Power dissipation per pole	48 W AC-3 120 W AC-1
Connections - terminals	Bars 2 cable(s) - busbar cross section: 60 x 5 mm
Tightening torque	58 N.m
Operating time	40...80 ms latching 50...100 ms unlatching
Mechanical durability	1 Mcycles
Maximum operating rate	120 cyc/h 40 °C

Complementary

Control circuit voltage limits	Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc
average consumption	8 VA AC 50/60 Hz unlatching 2100 VA AC 50/60 Hz latching 11 VA AC 400 Hz unlatching 11 W DC unlatching 2300 VA AC 400 Hz latching 2300 W DC latching

Environment

Protective treatment	TH
Ambient air temperature for operation	-15...70 °C
Ambient air temperature for storage	-60...80 °C
Operating altitude	3000 m without derating
Height	304 mm
Width	309 mm
Depth	255 mm
Net weight	18.6 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty (in months)	18
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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

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Longer



Lifetime extension

[Repair](#)

[No](#)