

Product datasheet

Specifications



Bistable contactor CR1-F - 3P - AC-3 440V 630 A - coil 415 V

CR1F630N7

! 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-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 <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	415 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1000 A (at 40 °C) for power circuit
Irms rated making capacity	6740 A for power circuit
Rated breaking capacity	3200 A at 1000 V 6300 A at 220...440 V for power circuit 5400 A at 500 V for power circuit 4600 A at 660/690 V for power circuit

[Icw] rated short-time withstand current	5.05 kA 40 °C - 1 s 5.05 kA 40 °C - 5 s 5.05 kA 40 °C - 10 s 4400 A 40 °C - 30 s 3400 A 40 °C - 1 min 2200 A 40 °C - 3 min 1600 A 40 °C - 10 min
Associated fuse rating	630 A aM at <= 440 V for power circuit 1000 A BS88 at <= 440 V for power circuit 1000 A gG at <= 440 V for power circuit
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
Mounting support	Notched AM1-EC rail
Standards	VDE 0660 IEC 60947-4 BS 5424 JEM 1038 NF C 63-110
Product certifications	BV RINA CSA ASE UL Veritas USSR GL LROS (Lloyds register of shipping)
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	11 VA AC 50...400 Hz unlatching 2300 VA AC 50...400 Hz latching 11 VA DC unlatching 2300 VA DC latching

Environment

IP degree of protection	IP20 front face conforming to IEC 60529
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
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Product weight	18.6 kg
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Packing Units

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

Use Again

Repack and remanufacture

WEEE Label



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins