

Product datasheet

Specifications



Bistable contactor CR1-F - 4P - AC-1 440V 250 A - coil 127 V

CR1F1504G7

⚠ Discontinued on: 1 Nov 2020

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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	4P
power pole contact composition	4 NO
[Ue] rated operational voltage	1000 V AC 25...200 Hz
[Ie] rated operational current	150 A (at <40 °C) at <= 440 V AC AC-3 250 A (at <40 °C) at <= 440 V AC AC-1 138 A (at <40 °C) at <= 440 V AC AC-4
Motor power kW	65 kW at 1000 V AC 50/60 Hz 100 kW at 690 V AC 50/60 Hz 90 kW at 500...660 V AC 50/60 Hz 80 kW at 440 V AC 50/60 Hz 80 kW at 415 V AC 50/60 Hz 75 kW at 380...400 V AC 50/60 Hz 40 kW at 220...230 V AC 50/60 Hz
motor power HP (UL / CSA)	125 hp at 575...600 V AC 50/60 Hz for 3 phases motors 100 hp at 460...480 V AC 50/60 Hz for 3 phases motors 50 hp at 220...240 V AC 50/60 Hz for 3 phases motors 40 hp at 200...208 V AC 50/60 Hz for 3 phases motors
[Uc] control circuit voltage	127 V AC 50...400 Hz 127 V DC standard
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	250 A (at 40 °C) for power circuit
Irms rated making capacity	1700 A for power circuit
Rated breaking capacity	1500 A at 220...440 V for power circuit 1200 A at 500 V for power circuit 450 A at 1000 V for power circuit 1100 A at 660/690 V for power circuit

[Icw] rated short-time withstand current	1200 A 40 °C - 1 s 1200 A 40 °C - 5 s 1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 40 °C - 10 min
Associated fuse rating	160 A aM at <= 440 V for power circuit 250 A BS88 at <= 440 V for power circuit 250 A gG at <= 440 V for power circuit
Average impedance	0.45 mOhm - Ith 250 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	6 W AC-3 18 W AC-1
Mounting support	Notched AM1-EC rail Panel mounting
Standards	BS 5424 VDE 0660 IEC 60947-4 JEM 1038 NF C 63-110
Product certifications	Veritas UL USSR ASE BV LROS (Lloyds register of shipping) CSA GL RINA
Connections - terminals	Lugs-ring terminals 1 cable(s) 120 mm ² Connector 1 cable(s) 120 mm ² Bars 2 cable(s) - busbar cross section: 25 x 3 mm
Tightening torque	18 N.m
Operating time	35...40 ms latching 50...100 ms unlatching
Mechanical durability	1 Mcycles
Maximum operating rate	120 cyc/h 55 °C

Complementary

Control circuit voltage limits	Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc
average consumption	1260 VA AC 50...400 Hz latching 10 VA AC 50...400 Hz unlatching 1260 VA DC latching 10 VA DC unlatching

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	170 mm

Width	201.5 mm
Depth	171 mm
Net weight	3.8 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 >](#)

Use Longer



Lifetime extension

Repair

No

Use Again



Repack and remanufacture

End of life manual availability

[End of Life Information](#)

WEEE Label



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