

Product data sheet

Specifications



Bistable contactor CR1-F - 4P - AC-1 440V 1000 A - coil 48 V

CR1F6304E7

⚠ 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-3 AC-1 AC-4
Poles description	4P
power pole contact composition	4 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	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 phase motors 600 hp at 460...480 V AC 50/60 Hz for 3 phase motors 300 hp at 220...240 V AC 50/60 Hz for 3 phase motors 250 hp at 200...208 V AC 50/60 Hz for 3 phase motors
[Uc] control circuit voltage	48 V AC 50...400 Hz 48 V DC standard
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	1000 A (at 104 °F (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

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	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 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 - lth 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
Power dissipation per pole	48 W AC-3 120 W AC-1
Mounting Support	Notched AM1-EC rail
Standards	IEC 60947-4 BS 5424 VDE 0660 NF C 63-110 JEM 1038
Product Certifications	RINA GL ASE LROS (Lloyds register of shipping) BV Veritas USSR CSA UL
Connections - terminals	bars 2 60 x 5 mm
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

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	12.0 in (304 mm)
Width	15.3 in (389 mm)

Depth	10.04 in (255 mm)
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Net Weight	47.4 lb(US) (21.5 kg)
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Ordering and shipping details

Category	22331-CTR,F-LINE,DC,OPEN,NONREV
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Discount Schedule	I12
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GTIN	3389110548952
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Returnability	No
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Packing Units

Unit Type of Package 1	PCE
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Nbr. of units in pkg.	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](#)