

# Product datasheet

Specifications



## Bistable contactor CR1-F - 4P - AC-1 440V 1000 A - coil 380..400 V

CR1F6304Q7

⚠ 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	Resistive load Motor control
Utilisation category	AC-1 AC-3 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 <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	380 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

<b>[Icw] rated short-time withstand current</b>	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
<b>Associated fuse rating</b>	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
<b>Average impedance</b>	0.12 mOhm - Ith 1000 A 50 Hz
<b>[Ui] rated insulation voltage</b>	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
<b>Power dissipation per pole</b>	48 W AC-3 120 W AC-1
<b>Mounting support</b>	Notched AM1-EC rail
<b>Standards</b>	NF C 63-110 VDE 0660 BS 5424 JEM 1038 IEC 60947-4
<b>Product certifications</b>	UL CSA Veritas LROS (Lloyds register of shipping) RINA BV USSR ASE GL
<b>Connections - terminals</b>	Bars 2 cable(s) - busbar cross section: 60 x 5 mm
<b>Tightening torque</b>	58 N.m
<b>Operating time</b>	40...80 ms latching 50...100 ms unlatching
<b>Mechanical durability</b>	1 Mcycles
<b>Maximum operating rate</b>	120 cyc/h 40 °C

## Complementary

<b>Control circuit voltage limits</b>	Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc
<b>average consumption</b>	11 VA AC 50...400 Hz unlatching 2300 VA AC 50...400 Hz latching 11 VA DC unlatching 2300 VA DC latching

## Environment

<b>IP degree of protection</b>	IP20 front face conforming to IEC 60529
<b>Protective treatment</b>	TH
<b>Ambient air temperature for operation</b>	-15...70 °C
<b>Ambient air temperature for storage</b>	-60...80 °C
<b>Operating altitude</b>	3000 m without derating
<b>Height</b>	304 mm
<b>Width</b>	389 mm

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Depth	255 mm
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Net weight	21.5 kg
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## Packing Units

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Unit Type of Package 1	PCE
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Number of Units in Package 1	1
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## Contractual warranty

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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](#)