Product datasheet

Specifications

Bistable contactor CR1-F - 3P - AC-1 440V 400 A - coil 440 V

CR1F400R7

Discontinued on: 1 Nov 2020

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	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	1000 V AC 25...200 Hz
[Ie] rated operational current	400 A (at <40 °C) at <= 440 V AC AC-3 500 A (at <40 °C) at <= 440 V AC AC-1 370 A (at <40 °C) at <= 440 V AC AC-4
Motor power kW	185 kW at 1000 V AC 50/60 Hz 280 kW at 690 V AC 50/60 Hz 257 kW at 500...660 V AC 50/60 Hz 250 kW at 440 V AC 50/60 Hz 220 kW at 415 V AC 50/60 Hz 200 kW at 380...400 V AC 50/60 Hz 110 kW at 220...230 V AC 50/60 Hz
motor power HP (UL / CSA)	300 hp at 575...600 V AC 50/60 Hz for 3 phases motors 250 hp at 460...480 V AC 50/60 Hz for 3 phases motors 125 hp at 220...240 V AC 50/60 Hz for 3 phases motors 100 hp at 200...208 V AC 50/60 Hz for 3 phases motors
[Uc] control circuit voltage	440 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	500 A (at 40 °C) for power circuit
Irms rated making capacity	4500 A for power circuit
Rated breaking capacity	4000 A at 220...440 V for power circuit 3500 A at 500 V for power circuit 1200 A at 1000 V for power circuit 3000 A at 660/690 V for power circuit

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

[Icw] rated short-time withstand current	3600 A 40 °C - 1 s 3600 A 40 °C - 5 s 3600 A 40 °C - 10 s 2400 A 40 °C - 30 s 1700 A 40 °C - 1 min 1200 A 40 °C - 3 min 1000 A 40 °C - 10 min
Associated fuse rating	400 A aM at <= 440 V for power circuit 500 A BS88 at <= 440 V for power circuit 500 A gG at <= 440 V for power circuit
Average impedance	0.28 mOhm - Ith 500 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	45 W AC-3 70 W AC-1
Mounting support	Notched AM1-EC rail
Standards	BS 5424 VDE 0660 JEM 1038 NF C 63-110 IEC 60947-4
Product certifications	BV USSR GL RINA LROS (Lloyds register of shipping) Veritas ASE CSA UL
Connections - terminals	Lugs-ring terminals 2 cable(s) 150 mm² Bars 2 cable(s) - busbar cross section: 30 x 5 mm
Tightening torque	35 N.m
Operating time	40...75 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	1600 VA AC 50...400 Hz latching 16 VA AC 50...400 Hz unlatching 1600 VA DC latching 16 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	206 mm
Width	213 mm

Depth	219 mm
Net weight	9.1 kg

Packing Units

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

Contractual warranty

Warranty (in months)	18

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