

Product datasheet

Specifications



Bistable contactor CR1-F - 4P - AC-1 440V 350 A - coil 380..400 V

CR1F2654Q7

⚠ 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-4 AC-1 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	265 A (at <40 °C) at ≤ 440 V AC AC-3 350 A (at <40 °C) at ≤ 440 V AC AC-1 245 A (at <40 °C) at ≤ 440 V AC AC-4
Motor power kW	147 kW at 1000 V AC 50/60 Hz 160 kW at 690 V AC 50/60 Hz 160 kW at 500...660 V AC 50/60 Hz 140 kW at 440 V AC 50/60 Hz 140 kW at 415 V AC 50/60 Hz 132 kW at 380...400 V AC 50/60 Hz 75 kW at 220...230 V AC 50/60 Hz
motor power HP (UL / CSA)	175 hp at 575...600 V AC 50/60 Hz for 3 phases motors 150 hp at 460...480 V AC 50/60 Hz for 3 phases motors 75 hp at 220...240 V AC 50/60 Hz for 3 phases motors 60 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	350 A (at 40 °C) for power circuit
Irms rated making capacity	2940 A for power circuit
Rated breaking capacity	2450 A at 220...440 V for power circuit 2200 A at 500 V for power circuit 800 A at 1000 V for power circuit 1700 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	2200 A 40 °C - 1 s 2200 A 40 °C - 5 s 2200 A 40 °C - 10 s 1230 A 40 °C - 30 s 950 A 40 °C - 1 min 620 A 40 °C - 3 min 480 A 40 °C - 10 min
Associated fuse rating	315 A aM at <= 440 V for power circuit 400 A BS88 at <= 440 V for power circuit 400 A gG at <= 440 V for power circuit
Average impedance	0.32 mOhm - Ith 350 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	22 W AC-3 39 W AC-1
Mounting support	Notched AM1-EC rail Panel mounting
Standards	VDE 0660 NF C 63-110 JEM 1038 BS 5424 IEC 60947-4
Product certifications	CSA Veritas USSR BV LROS (Lloyds register of shipping) ASE GL RINA UL
Connections - terminals	Lugs-ring terminals 1 cable(s) 240 mm ² Connector 1 cable(s) 240 mm ² Bars 2 cable(s) - busbar cross section: 32 x 4 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	1800 VA AC 50...400 Hz latching 12 VA AC 50...400 Hz unlatching 1800 VA DC latching 12 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	203 mm

Width	244.5 mm
Depth	213 mm
Net weight	8.5 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