

# Product datasheet

Specifications



## TeSys F magnetic latching contactor - 4P - 350 A - 220 V DC coil - low consum.

CR1F2654MZ7

⚠ 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	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	220 V DC low consumption
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	350 A (at 40 °C)
Irms rated making capacity	2940 A
Rated breaking capacity	2450 A at 220...440 V 2200 A at 500 V 800 A at 1000 V 1700 A at 660/690 V

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

<b>[Icw] rated short-time withstand current</b>	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
<b>Associated fuse rating</b>	315 A aM at <= 440 V 400 A BS88 at <= 440 V 400 A gG at <= 440 V
<b>Average impedance</b>	0.32 mOhm - Ith 350 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>	22 W AC-3 39 W AC-1
<b>Connections - terminals</b>	Lugs-ring terminals 1 cable(s) 240 mm <sup>2</sup> Connector 1 cable(s) 240 mm <sup>2</sup> Bars 2 cable(s) - busbar cross section: 32 x 4 mm
<b>Tightening torque</b>	35 N.m
<b>Operating time</b>	50...100 ms unlatching 45...50 ms latching
<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>	500 W DC latching 40 W DC unlatching

## Environment

<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>	203 mm
<b>Width</b>	244.5 mm
<b>Depth</b>	213 mm
<b>Net weight</b>	8.5 kg

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1

## Contractual warranty

<b>Warranty (in months)</b>	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