

# Product datasheet

Specifications



## TeSys F magnetic latching contactor - 4P - 275 A - 220 V DC coil - low consum.

CR1F1854MZ7

⚠ 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-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	185 A (at <40 °C) at <= 440 V AC AC-3 275 A (at <40 °C) at <= 440 V AC AC-1 170 A (at <40 °C) at <= 440 V AC AC-4
Motor power kW	100 kW at 1000 V AC 50/60 Hz 110 kW at 690 V AC 50/60 Hz 110 kW at 500...660 V AC 50/60 Hz 100 kW at 440 V AC 50/60 Hz 100 kW at 415 V AC 50/60 Hz 90 kW at 380...400 V AC 50/60 Hz 55 kW at 220...230 V AC 50/60 Hz
motor power HP (UL / CSA)	150 hp at 575...600 V AC 50/60 Hz for 3 phases motors 125 hp at 460...480 V AC 50/60 Hz for 3 phases motors 60 hp at 220...240 V AC 50/60 Hz for 3 phases motors 50 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	275 A (at 40 °C)
Irms rated making capacity	2100 A
Rated breaking capacity	1800 A at 220...440 V 1600 A at 500 V 600 A at 1000 V 1200 A at 660/690 V

<b>[Icw] rated short-time withstand current</b>	1500 A 40 °C - 1 s 1500 A 40 °C - 5 s 1500 A 40 °C - 10 s 920 A 40 °C - 30 s 740 A 40 °C - 1 min 500 A 40 °C - 3 min 400 A 40 °C - 10 min
<b>Associated fuse rating</b>	200 aM at <= 440 V 315 A BS88 at <= 440 V 315 A gG at <= 440 V
<b>Average impedance</b>	0.36 mOhm - Ith 275 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>	12 W AC-3 26 W AC-1
<b>Connections - terminals</b>	Bars 2 cable(s) - busbar cross section: 25 x 3 mm Lugs-ring terminals 1 cable(s) 150 mm <sup>2</sup> Connector 1 cable(s) 150 mm <sup>2</sup>
<b>Tightening torque</b>	18 N.m
<b>Operating time</b>	35...40 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>	500 W DC latching 20 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>	174 mm
<b>Width</b>	208.5 mm
<b>Depth</b>	181 mm
<b>Net weight</b>	5.4 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