

# Product data sheet

Specifications



## Bistable contactor CR1-F - 4P - AC-1 440V 275 A - coil 240 V

CR1F1854U7

⚠ Discontinued

### 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-3 AC-1
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 <104 °F (40 °C)) at <= 440 V AC AC-3 275 A (at <104 °F (40 °C)) at <= 440 V AC AC-1 170 A (at <104 °F (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 phase motors 125 hp at 460...480 V AC 50/60 Hz for 3 phase motors 60 hp at 220...240 V AC 50/60 Hz for 3 phase motors 50 hp at 200...208 V AC 50/60 Hz for 3 phase motors
[Uc] control circuit voltage	240 V AC 50/60 Hz
[Uimp] rated impulse withstand voltage	8 kV
[Ith] conventional free air thermal current	275 A (at 104 °F (40 °C)) for power circuit
Irms rated making capacity	2100 A for power circuit
Rated breaking capacity	1800 A at 220...440 V for power circuit 1600 A at 500 V for power circuit 600 A at 1000 V for power circuit 1200 A at 660/690 V for power circuit

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>[Icw] rated short-time withstand current</b>	1500 A 104 °F (40 °C) - 1 s 1500 A 104 °F (40 °C) - 5 s 1500 A 104 °F (40 °C) - 10 s 920 A 104 °F (40 °C) - 30 s 740 A 104 °F (40 °C) - 1 min 500 A 104 °F (40 °C) - 3 min 400 A 104 °F (40 °C) - 10 min
<b>Associated fuse rating</b>	200 aM at <= 440 V for power circuit 315 A BS88 at <= 440 V for power circuit 315 A gG at <= 440 V for power circuit
<b>Average impedance</b>	0.36 mOhm - lth 275 A 50 Hz
<b>[Ui] rated insulation voltage</b>	1000 V IEC 60158-1 1000 V IEC 60947-4 1000 V BS 775 1500 V VDE 0110 group C
<b>Power dissipation per pole</b>	12 W AC-3 26 W AC-1
<b>Mounting Support</b>	Notched AM1-EC rail Panel mounting
<b>Standards</b>	JEM 1038 IEC 60947-4 VDE 0660 NF C 63-110 BS 5424
<b>Product Certifications</b>	ASE RINA LROS (Lloyds register of shipping) USSR GL CSA Veritas BV UL
<b>Connections - terminals</b>	bars 2 25 x 3 mm lugs-ring terminals 1 0.2 in <sup>2</sup> (150 mm <sup>2</sup> ) connector 1 0.2 in <sup>2</sup> (150 mm <sup>2</sup> )
<b>Tightening torque</b>	159.3 lbf.in (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 104 °F (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>	1750 VA AC 50...400 Hz latching 11 VA AC 50...400 Hz unlatching 1750 VA DC latching 11 VA DC unlatching

## Environment

<b>IP degree of protection</b>	IP20 front face IEC 60529
<b>Protective treatment</b>	TH
<b>Ambient Air Temperature for Operation</b>	5...158 °F (-15...70 °C)
<b>Ambient Air Temperature for Storage</b>	-76...176 °F (-60...80 °C)
<b>Operating altitude</b>	9842.52 ft (3000 m) without derating
<b>Height</b>	6.9 in (174 mm)

<b>Width</b>	8.2 in (208.5 mm)
<b>Depth</b>	7.1 in (181 mm)
<b>Net Weight</b>	11.9 lb(US) (5.4 kg)

## Ordering and shipping details

<b>Category</b>	22331-CTR,F-LINE,DC,OPEN,NONREV
<b>Discount Schedule</b>	I12
<b>GTIN</b>	3389110548297
<b>Returnability</b>	No
<b>Country of origin</b>	FR

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Nbr. of units in pkg.</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