Product data sheet

Specifications

TeSys F magnetic latching contactor - 4P(4 NO) - 185 A - 220...230 V AC/DC coil

CR1F1854M7

Discontinued on: Jul 12, 2021

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-1 AC-4 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	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
Control circuit type	AC 50...400 Hz DC standard
[Uc] control circuit voltage	220...230 V AC 50...400 Hz 220...230 V DC
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
[Icw] rated short-time withstand current	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
Associated fuse rating	200 A aM at <= 440 V 315 A BS88 at <= 440 V 315 A gG at <= 440 V
Average impedance	0.36 mOhm - Ith 275 A 50 Hz
[Ui] rated insulation voltage	1000 V IEC 60158-1 1000 V IEC 60947-4 1000 V BS 775 1500 V VDE 0110 group C

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

Power dissipation per pole	12 W AC-3 26 W AC-1
Connections - terminals	bars 2 25 x 3 mm lugs-ring terminals 1 0.2 in² (150 mm²) connector 1 0.2 in² (150 mm²) Power circuit bolted connection
Tightening torque	159.3 lbf.in (18 N.m)
Operating time	35...40 ms latching 50...100 ms unlatching
Mechanical durability	1 Mcycles
Maximum operating rate	120 cyc/h 104 °F (40 °C)

Complementary

Control circuit voltage limits	Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc
average consumption	1750 VA AC 50...400 Hz latching 11 VA AC 50...400 Hz unlatching 1750 VA DC latching 11 VA DC unlatching

Environment

Protective treatment	TC
Ambient Air Temperature for Operation	5…158 °F (-15…70 °C)
Ambient Air Temperature for Storage	-76…176 °F (-60…80 °C)
Operating altitude	9842.52 ft (3000 m) without derating
Height	6.9 in (174 mm)
Width	8.2 in (208.5 mm)
Depth	7.1 in (181 mm)
Net Weight	11.9 lb(US) (5.4 kg)

Ordering and shipping details

Category	22331-CTR,F-LINE,DC,OPEN,NONREV
Discount Schedule	I12
GTIN	3389110548266
Returnability	No
Country of origin	FR

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	8.5 in (21.5 cm)
Package 1 Width	7.9 in (20 cm)
Package 1 Length	10.4 in (26.5 cm)
Package weight(Lbs)	13.32 lb(US) (6.04 kg)

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 >

Use Better

Materials and Substances

EU RoHS Directive	Compliant
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
PVC free	Yes

Use Longer

Lifetime extension

Repair	No

Use Again

Repack and remanufacture

WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.