Product datasheet

Specifications

TeSys F magnetic latching contactor - 4P - 250 A - 220/230 V AC/DC coil

CR1F1504M7

Discontinued on: 1 Nov 2020

Discontinued

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-3 AC-4 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	150 A (at <40 °C) at <= 440 V AC AC-3 250 A (at <40 °C) at <= 440 V AC AC-1 138 A (at <40 °C) at <= 440 V AC AC-4
Control circuit type	AC at 50...400 Hz DC standard
[Uc] control circuit voltage	220...230 V AC 50...400 Hz 220...230 V DC
Irms rated making capacity	1700 A
Rated breaking capacity	1500 A at 220...440 V 1200 A at 500 V 450 A at 1000 V 1100 A at 660/690 V
[Icw] rated short-time withstand current	1200 A 40 °C - 1 s 1200 A 40 °C - 5 s 1200 A 40 °C - 10 s 700 A 40 °C - 30 s 600 A 40 °C - 1 min 450 A 40 °C - 3 min 350 A 40 °C - 10 min
Associated fuse rating	160 A aM at <= 440 V 250 A BS88 at <= 440 V 250 A gG at <= 440 V
Average impedance	0.45 mOhm - Ith 250 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	6 W AC-3 18 W AC-1
Connections - terminals	Lugs-ring terminals 1 cable(s) 120 mm² Connector 1 cable(s) 120 mm² Bars 2 cable(s) - busbar cross section: 25 x 3 mm Power circuit: bolted connection
Tightening torque	18 N.m
Operating time	35...40 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	1260 VA AC 50...400 Hz latching 10 VA AC 50...400 Hz unlatching 1260 VA DC latching 10 VA DC unlatching

Environment

Protective treatment	TC
Ambient air temperature for operation	-15…70 °C
Ambient air temperature for storage	-60…80 °C
Operating altitude	3000 m without derating
Height	170 mm
Width	201.5 mm
Depth	171 mm
Net weight	3.8 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	21 cm
Package 1 Width	20 cm
Package 1 Length	26.5 cm
Package 1 Weight	5.04 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 Longer

Lifetime extension

Repair	No

Use Again

Repack and remanufacture

End of life manual availability	End of Life Information
WEEE Label	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins