

Product datasheet

Specifications



Magnetic latching contactor, TeSys F, 3P(3NO), AC-3 <=440V 500A, 110V DC coil

CR1F500F7

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

Main

Range	TeSys
Product name	TeSys F
Product or component type	Magnetic contactor
Device short name	CR1F
Utilisation category	AC-3 AC-1 AC-4
Poles description	3P
power pole contact composition	3 NO
[Ue] rated operational voltage	Power circuit: 1000 V AC Power circuit: 1000 V DC
[Ie] rated operational current	460 A (at <40 °C) AC/DC AC-4 for power circuit 500 A (at <40 °C) AC/DC AC-3 for power circuit 700 A (at <40 °C) AC/DC AC-1 for power circuit
[Uc] control circuit voltage	110 V AC 400 Hz 110 V AC 50/60 Hz 110 V DC
[Ith] conventional free air thermal current	700 A (at 40 °C) for power circuit
Irms rated making capacity	5000 A for power circuit
Rated breaking capacity	2500 A at 1000 V for power circuit 3560 A at 600...690 V for power circuit 4500 A at 500 V for power circuit 5000 A at 220...440 V for power circuit
Associated fuse rating	800 A BS88 for power circuit 800 A gG for power circuit 500 A aM for power circuit
Average impedance	0.18 Ohm - Ith 700 A 50 Hz for control circuit
[Ui] rated insulation voltage	Control circuit: 1000 V conforming to BS 775 Control circuit: 1000 V conforming to IEC 60158-1 Control circuit: 1000 V conforming to IEC 60947-4 Control circuit: 1500 V conforming to VDE 0110 group C
Power dissipation per pole	45 W AC-3 88 W AC-1 83 W AC-4
Standards	EN/IEC 60947-1 EN/IEC 60947-4-1 JIS C8201-4-1 UL 60947-4-1 CSA C22.2 No 60947-4-1

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

Product certifications	CB Scheme UL CSA EAC CE UKCA
Connections - terminals	Bolted connection
Operating time	40...80 ms latching 50...100 ms unlatching
Mechanical durability	1000000 cycles
Maximum operating rate	120 cyc/mn 40 °C
Coil type	Standard

Complementary

Control circuit voltage limits	Latching: 0.85...1.1 Uc Unlatching: 0.85...1.1 Uc
average consumption	1650 VA AC 50/60 Hz latching 1800 VA AC 400 Hz latching 1800 VA DC latching 13 VA AC 400 Hz unlatching 9.5 VA AC 50/60 Hz unlatching 13 VA DC unlatching

Environment

Protective treatment	TH
Ambient air temperature for operation	-15...70 °C
Operating altitude	3000 m without derating
Operating position	+/- 5°
Height	400 mm
Width	288 mm
Depth	232 mm
Net weight	11.3 kg
Quantity per set	Set of 10

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	27.0 cm
Package 1 Width	30.0 cm
Package 1 Length	30.0 cm
Package 1 Weight	11.78 kg

Contractual warranty

Warranty (in months)	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 >](#)

 Environmental footprint	
Total lifecycle Carbon footprint	4 041 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	76 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	4 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	3 937 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	24 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better

 Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No, we have minimized the use of plastic in the packaging in compliance with regulations and considering quality and safety standards
SCIP Number	975ba4d0-bc82-40e2-8faa-6f6819f63b0c

Use Longer

 Lifetime extension	
Repair	No

Use Again

 Repack and remanufacture	
Recyclability potential, in %	95
End of life manual availability	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins