

CR1F500M7

TeSys F magnetic latching contactor - 3P(3 NO) -
500 A - 220...230 V AC/DC coil



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	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	1000 V AC 25...200 Hz
[Ie] rated operational current	700 A (<= 40 °C) at <= 440 V AC AC-1 500 A (<= 40 °C) at <= 440 V AC AC-3 460 A (<= 40 °C) at <= 440 V AC AC-4
Motor power kW	250 kW 400 V AC 50/60 Hz AC-4
Control circuit type	DC standard AC 50...400 Hz
[Uc] control circuit voltage	220...230 V AC 50...400 Hz 220...230 V DC
Irms rated making capacity	5000 A
Rated breaking capacity	5000 A at 220...440 V 4500 A at 500 V 2500 A at 1000 V 3560 A at 660/690 V
[Icw] rated short-time withstand current	4200 A <= 40 °C 10 s 3200 A <= 40 °C 30 s 2400 A <= 40 °C 1 min 1500 A <= 40 °C 3 min 1200 A <= 40 °C 10 min 4200 A <= 40 °C 1 s 4200 A <= 40 °C 5 s
Associated fuse rating	500 A aM at <= 440 V 800 A gG at <= 440 V 800 A BS88 at <= 440 V
Average impedance	0.18 mOhm at 50 Hz - Ith 700 A
[Ui] rated insulation voltage	1500 V conforming to VDE 0110 group C 1000 V conforming to IEC 60158-1 1000 V conforming to IEC 60947-4 1000 V conforming to BS 775
Power dissipation per pole	45 W AC-3 88 W AC-1
Connections - terminals	Lugs-ring terminals 2 cable(s) 240 mm ² Bars 2 x (40 x 5 mm) Power circuit : bolted connection
Tightening torque	35 N.m
Operating time	50...100 ms unlatching 40...80 ms latching
Mechanical durability	1 Mcycles
Operating rate	120 cyc/h at <= 40 °C

Complementary

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Control circuit voltage limits	0.85...1.1 Uc latching 0.85...1.1 Uc unlatching
Average coil consumption	1800 VA AC 50...400 Hz latching 1800 VA DC latching 13 VA AC 50...400 Hz unlatching 13 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 in temperature
height	238 mm
width	233 mm
depth	232 mm
product weight	11.3 kg

Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 0915 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available