

CR1F500F7

bistable contactor CR1-F - 3 poles - AC-3 440V 500 A - coil 110 V



Main

Range	TeSys
Product name	TeSys F
Product or component type	Magnetic contactor
Device short name	CR1F
Utilisation category	AC-1 AC-3 AC-4
Poles description	3P
Pole contact composition	3 NO
[Ue] rated operational voltage	1000 V AC for power circuit 1000 V DC for power circuit
[Ie] rated operational current	460 A (40 °C) AC/DC AC-4 for power circuit 500 A (40 °C) AC/DC AC-3 for power circuit 700 A (40 °C) AC/DC AC-1 for power circuit
[Uc] control circuit voltage	110 V 110 V 110 V
[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	500 A aM for power circuit 800 A BS88 for power circuit 800 A gG for power circuit
Average impedance	0.18 Ohm at 50 Hz - Ith 700 A for control circuit
[Ui] rated insulation voltage	1000 V - for control circuit - conforming to BS 775 1000 V - for control circuit - conforming to IEC 60158-1 1000 V - for control circuit - conforming to IEC 60947-4 1500 V - for control circuit - conforming to VDE 0110 group C
Power dissipation per pole	45 W AC-3 88 W AC-1 83 W AC-4
Connections - terminals	Bolted connection
Operating time	50...100 ms unlatching 40...80 ms latching
Mechanical durability	1000000 cycles
Operating rate	<= 120 cyc/mn at <= 40 °C
Coil type	Standard

Complementary

Control circuit voltage limits	0.85...1.1 Uc latching 0.85...1.1 Uc unlatching
Average coil consumption	1800 VA DC latching 1650 VA AC 50/60 Hz latching 13 VA DC unlatching 9.5 VA AC 50/60 Hz unlatching 1800 VA AC 400 Hz latching 13 VA AC 400 Hz unlatching

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.

Environment

protective treatment	TH
ambient air temperature for operation	-15...70 °C
operating altitude	3000 m without derating in temperature
operating position	+/- 5°
height	400 mm
width	288 mm
depth	232 mm
product weight	11.3 kg
quantity per set	Set of 10