

CR1F400M7

TeSys F magnetic latching contactor - 3P(3 NO) -
400 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	500 A ($\leq 40^\circ\text{C}$) at $\leq 440\text{ V AC AC-1}$ 400 A ($\leq 40^\circ\text{C}$) at $\leq 440\text{ V AC AC-3}$ 370 A ($\leq 40^\circ\text{C}$) at $\leq 440\text{ V AC AC-4}$
Motor power kW	200 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	4500 A
Rated breaking capacity	4000 A at 220...440 V 3500 A at 500 V 1200 A at 1000 V 3000 A at 660/690 V
[Icw] rated short-time withstand current	3600 A $\leq 40^\circ\text{C}$ 10 s 2400 A $\leq 40^\circ\text{C}$ 30 s 1700 A $\leq 40^\circ\text{C}$ 1 min 1200 A $\leq 40^\circ\text{C}$ 3 min 1000 A $\leq 40^\circ\text{C}$ 10 min 3600 A $\leq 40^\circ\text{C}$ 1 s 3600 A $\leq 40^\circ\text{C}$ 5 s
Associated fuse rating	400 A aM at $\leq 440\text{ V}$ 500 A gG at $\leq 440\text{ V}$ 500 A BS88 at $\leq 440\text{ V}$
Average impedance	0.28 mOhm at 50 Hz - Ith 500 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 70 W AC-1
Connections - terminals	Lugs-ring terminals 2 cable(s) 150 mm ² Bars 2 x (30 x 5 mm) Power circuit : bolted connection
Tightening torque	35 N.m
Operating time	50...100 ms unlatching 40...75 ms latching
Mechanical durability	1 Mcycles
Operating rate	120 cyc/h at $\leq 40^\circ\text{C}$

Complementary

Control circuit voltage limits	0.85...1.1 Uc latching 0.85...1.1 Uc unlatching
Average coil consumption	1600 VA AC 50...400 Hz latching 1600 VA DC latching 16 VA AC 50...400 Hz unlatching 16 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	206 mm
width	213 mm
depth	219 mm
product weight	9.1 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