

CR1F630M7

TeSys F magnetic latching contactor - 3P(3 NO) -
630 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	1000 A ($\leq 40^\circ\text{C}$) at $\leq 440\text{ V AC AC-1}$ 630 A ($\leq 40^\circ\text{C}$) at $\leq 440\text{ V AC AC-3}$ 560 A ($\leq 40^\circ\text{C}$) at $\leq 440\text{ V AC AC-4}$
Motor power kW	335 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	6740 A
Rated breaking capacity	6300 A at 220...440 V 5400 A at 500 V 3200 A at 1000 V 4600 A at 660/690 V
[Icw] rated short-time withstand current	4400 A $\leq 40^\circ\text{C}$ 30 s 3400 A $\leq 40^\circ\text{C}$ 1 min 2200 A $\leq 40^\circ\text{C}$ 3 min 1600 A $\leq 40^\circ\text{C}$ 10 min 5.05 kA $\leq 40^\circ\text{C}$ 1 s 5.05 kA $\leq 40^\circ\text{C}$ 5 s 5.05 kA $\leq 40^\circ\text{C}$ 10 s
Associated fuse rating	630 A aM at $\leq 440\text{ V}$ 1000 A gG at $\leq 440\text{ V}$ 1000 A BS88 at $\leq 440\text{ V}$
Average impedance	0.12 mOhm at 50 Hz - Ith 1000 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	120 W AC-1 48 W AC-3
Connections - terminals	Bars 2 x (60 x 5 mm) Power circuit : bolted connection
Tightening torque	58 N.m
Operating time	50...100 ms unlatching 40...80 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	11 VA AC 50...400 Hz unlatching 11 VA DC unlatching 2300 VA AC 50...400 Hz latching 2300 VA DC latching

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	304 mm
width	309 mm
depth	255 mm
product weight	18.6 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