Davier Simmons - Project 6

Monday, April 20, 2020 12:00 PM

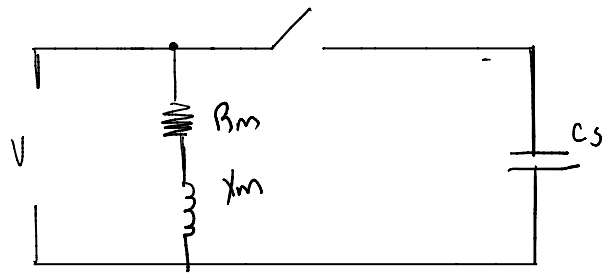
$V_{utility} = 240V$ poles = 4

$n = 1700$ r/min

$F = 60$ Hz

$$n_s = \frac{120(60Hz)}{4} = 1800 \text{ rpm}$$

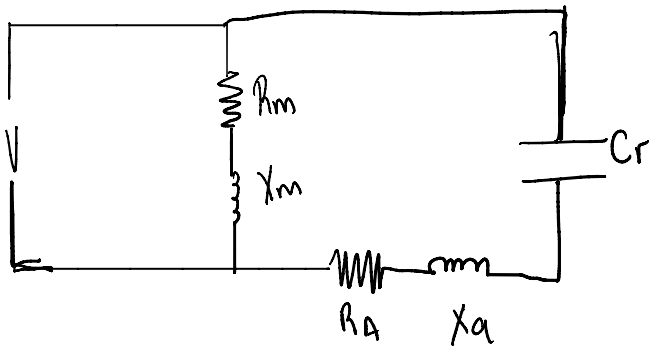
$$S = \frac{n_s - n}{n_s} = \frac{1800-1700}{1800} = 5.56\%$$



Once the rotor begins to rotate the motor will begin to rotate with respect to the polarity of the windings.

In order to change the rotational direction we must change the direction of the windings.

$n_s = 1800$rpm , $S = 5.56\%$, poles = 4



Starting Motor: Apply voltage to rotor.
In order to change motor in the winding
Change the applied polarity in the windings.