G043+G045 Online Test

Ref374

Which is correct formula

A	T= F x r P = 9.55 / NT	B	T= F x r P = NT/ 9.55
C	T= F + r P = NT/ 9.55	D	T= F x r P = 9.55 / N+T
	Answer		

Ref376

The heat taken away by blower is

A	P = 640V (t2 − t1)	B	P = 320V (t2 − t1)
C	P = 1280V (t2 − t1)	D	P = 160V (t2 − t1)
	Answer		

Ref378

The 6 poles wound rotor induction motor is excited by three phase 60 HZ source. Calculate the rotor frequency for (a) Standstill (b) 500 rpm same direction (c) 500 rpm opposite direction.

A	50HZ, 70 HZ, 170HZ	B	60HZ, 35 HZ, 85 HZ
C	25 HZ, 35 HZ, 40 HZ	D	15 HZ, 35 HZ, 125 HZ
	Answer		

Ref380

A three phase induction motor having synchronous speed of 1200 rpm draws 80kw from three phase feeder. Copper loss & iron loss in stator amount to 5kw. If the motor runs at 11452 rpm, calculate the efficiency of motor.

A	45%	B	87.5%
C	75%	D	35%
	Answer		

Ref382

Locked rotor test is performed to determine.

A	Core parameter	B	Winding parameter
C	Load parameter	D	35%
	Answer		

Ref384

A three phase 208 V induction motor having synchronous speed 1200 rpm runs at 1140 rpm. When connected to 215V , driving at constant load, calculate the speed if voltage is 240V

A	1152 rpm	B	800 rpm
C	700 rpm	D	500 rpm
	Answer		

Ref386

The system that reverses the supply connection to the motor terminals when the stop switch is pressed is

A	Dynamic braking	B	Plugging
C	Forward reverse	D	Time delay starter
	Answer		

Ref388

A 500HP 720 rpm synchronous motor connected to 3980V three phase line generates an excitation voltage Ef=1790V (L-N) when the dc excitation current is 25 amp. The synchronous reactance is 22Ω, torque angle between Ef & V is 30°.Calculate shaft torque.

A	2000 N-m	B	3715 N-m
C	1500 N-m	D	750 N-m
	Answer		

Ref390

In a synchronous motor, when power factor is unity, the line current is

A	Maximum	B	Minimum
C	Unchanged	D	
Answer			

Ref392

Under excitation makes the power factor of a synchronous machine to become

A	Unity	B	Leading
C	Lagging	D	
Answer			