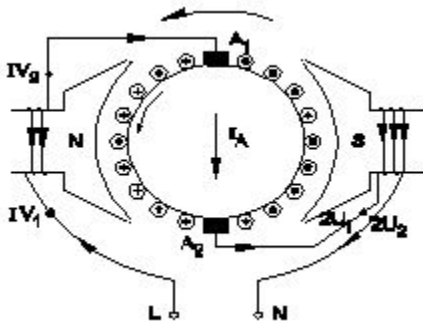


AC Single Phase Motor

1). What is the name of the AC single phase motor as shown in the diagram?



- (A) Resistance start induction run motor
 - (B) Permanent capacitor motor
 - (C) Shaded pole motor
 - (D) Universal motor
- Correct Answer : D

2). Which motor is having half coil winding?

- (A) Mixer
 - (B) Grinder
 - (C) Ceiling fan
 - (D) Washing machine
- Correct Answer : C

3). Which type of single phase motor is used for hard disk drives?

- (A) Stepper motor
 - (B) Repulsion motor
 - (C) Hysteresis motor
 - (D) Reluctance motor
- Correct Answer : A

4). Which type of motor is used for the vacuum cleaner?

- (A) Shaded pole motor
 - (B) Universal motor
 - (C) Repulsion motor
 - (D) Capacitor start motor
- Correct Answer : B

5). What is the effect, if some slots of a split phase motor are left out without winding after completion of concentric winding?

- (A) Works normally

- (B) Reduction in speed
 - (C) Reduction in torque
 - (D) Runs with very high speed
- Correct Answer : A

6). How many windings are in the stator of a split phase motor?

- (A) One
 - (B) Two
 - (C) Three
 - (D) Four
- Correct Answer : B

7). Which type of motor is used for small table fan?

- (A) Universal motor
 - (B) Shaded pole motor
 - (C) Repulsion motor
 - (D) Capacitor start capacitor run motor
- Correct Answer : B

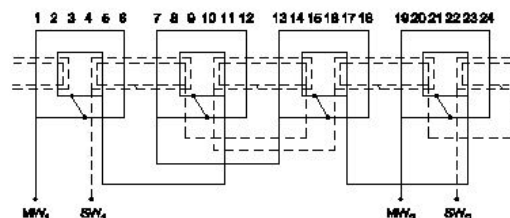
8). What is the electrical degree between main winding and auxiliary winding in a split phase induction motor?

- (A) 90°
 - (B) 120°
 - (C) 45°
 - (D) 180°
- Correct Answer : A

9). How the direction of rotation of repulsion motors is to be reversed?

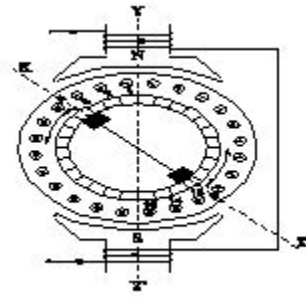
- (A) By shifting the brush-axis
 - (B) By interchanging the supply terminals
 - (C) By changing the main winding terminals
 - (D) By changing the compensating winding terminals
- Correct Answer : A

10). What is the name of the winding as shown in the figure?

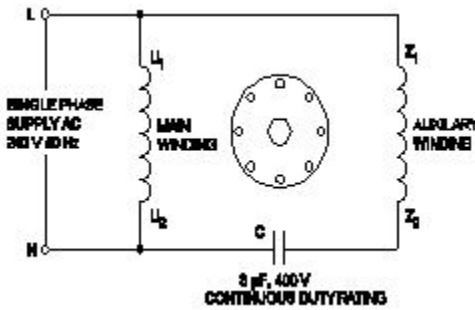


- (A) Mesh shaped coil winding
- (B) Diamond mesh shaped coil winding
- (C) Concentric coil winding
- (D) Basket winding

Correct Answer : C



11). What is the name of the single phase motor as shown in the diagram?



- (A) Resistance start induction run motor
- (B) Capacitor start capacitor run motor
- (C) Capacitor start induction run motor
- (D) Permanent capacitor motor

Correct Answer: D

12). What is the relation between the running winding and starting winding of a single phase induction motor with respect to resistance?

- (A) Both resistances will be equal
- (B) Running winding is less, starting winding more
- (C) Running winding is more, starting winding less
- (D) Running winding is less, starting winding infinity

Correct Answer: B

13). How the radio interference can be suppressed in the single phase capacitor start motor?

- (A) By connecting capacitor across centrifugal switch
- (B) By connecting capacitor in series with centrifugal switch
- (C) By connecting an resistor in series with centrifugal switch
- (D) By connecting an inductor in series with centrifugal switch

Correct Answer : A

14). What is the effect in a repulsion motor, if the brush position shifted to the opposite side?

- (A) Direction of rotation will change
 - (B) Direction of rotation remains same
 - (C) Motor speed increases from rated speed
 - (D) Motor speed will reduce from rated speed
- Correct Answer : A**

15). What is the input current of a 2hp single phase motor, 240V at 70 percentage efficiency and 0.8 power factor?

- (A) 6.95 Amp
- (B) 11 Amp
- (C) 13.52 Amp
- (D) 17.68 Amp

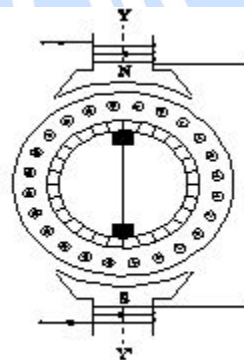
Correct Answer: B

16). Which is used to store the electrical energy in the form of electro static energy?

- (A) Inductor
- (B) Resistor
- (C) Thermistor
- (D) Capacitor

Correct Answer : D

17). What is the name of the AC single phase motor as shown in the diagram?



- (A) Universal motor
- (B) Permanent capacitor motor

- (C) Shaded pole motor
- (D) Repulsion motor

Correct Answer : D

18). What is the advantages of stepper motor?

- (A) Can run at very low speed
- (B) Resonance occurs
- (C) Rotor has no teeth
- (D) Can run at very high speed

Correct Answer : A

19). What is the reason if a single phase capacitor type motor runs at slow speed?

- (A) High voltage
- (B) Weak capacitor
- (C) Loose terminal connection
- (D) Open in starting winding

Correct Answer : B

20). Why the hysteresis motor is suitable for sound recording instruments?

- (A) Small in size
- (B) High efficiency
- (C) Noiseless operation
- (D) Less error operation

Correct Answer : C

21). What is the name of fault if a stator winding comes into contact with a stator core?

- (A) Short circuit fault
- (B) Open circuit fault
- (C) Ground fault
- (D) Leakage current fault

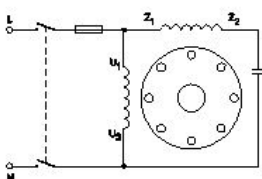
Correct Answer : C

22). Which single phase motor has squirrel cage rotor?

- (A) Split phase motor
- (B) Repulsion motor
- (C) Universal motor
- (D) Compensated repulsion motor

Correct Answer: A

23). What is the name of single phase motor as shown below?



- (A) Permanent capacitor motor
- (B) Induction start capacitor run motor
- (C) Capacitor start capacitor run motor
- (D) Capacitor start induction run motor

Correct Answer : A

24). Why a capacitor is connected across the centrifugal switch in the single phase capacitor start motor?

- (A) To maintain constant speed
- (B) To protect from over loading
- (C) To improve the power factor
- (D) To reduce the sparks in contacts

Correct Answer : D

25). What is the working principle of single phase induction motor?

- (A) Ohm's law
- (B) Joule's law
- (C) Faraday's laws of electrolysis
- (D) Faraday's laws of electromagnetic induction

Correct Answer : D

