

E029+G012 Online Test

Ref40

3 voltages , phase to neutral are measured to be 220V, 215V and 210V on nominal 415V , 50Hz. The percentage voltage imbalance is

A	2.3%	B	6%
C	4.6%	D	10%
Answer			

Ref41

The synchronous speed is

A	$N_s = 120f / p$	B	$N_s = P / 120f$
C	$N_s = Pf / 120$	D	$N_s = 120f$
Answer			

Ref43

Permissible starting current for two motors (a) 15KW , 415V & (b) 15KW , 415V are

A	102.5A & 82.3A	B	200A & 60A
C	300A & 100A	D	50A & 40A
Answer			

Ref48

22 Kw , 4 poles , 415 V, full load current 38 amp, three phase induction motor

Locked rotor current = 600% of I fl. Locked rotor torque = 155% Tfl Starting current and starting torque for (i) Star / delta (ii) Primary resistance starting (iii) Auto transformer starting with 55% tapping are

A	200%, 51.7%, 600%, 46.9%	B	100%, 20%, 300%, 23%
C	50%, 50%, 600%, 46.9%	D	100%, 51.7%, 300%, 46.9%
Answer			

Ref171

A resistance 10Ω is connected to 90V DC supply. Find the current and power

A	4.5A, 405W	B	9A, 405W
C	4.5A, 810W	D	9A, 810W
Answer			

Ref172

A power station supplying 100 W at 10 KV . Find (a) current (b) If line impedance is $0.1\Omega/\text{km}$, for 200 Km line, find line drop.

A	100A, 2000V	B	10A, 200V
C	100A, 200V	D	10A, 2000V
Answer			

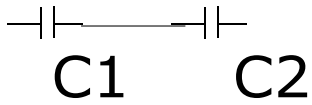
Ref174



L1 L2

A	$L_{\text{total}} = L_1 + L_2$	B	$L_{\text{total}} = L_1 - L_2$
C	$L_{\text{total}} = 1 / (L_1 + L_2)$	D	$L_{\text{total}} = L_1 L_2 / (L_1 + L_2)$
Answer			

Ref176



A	$C_{\text{total}} = C_1 + C_2$	B	$C_{\text{total}} = 1 / (C_1 + C_2)$
C	$C_{\text{total}} = C_1 C_2 / (C_1 + C_2)$	D	$L_{\text{total}} = C_1 - C_2$
Answer			

Ref177

Xl is equal to

A	$X_l = L$	B	$X_l = 2 \pi fL$
C	$X_l = 1 / 2 \pi fL$	D	$X_l = 1 / 2fL$
Answer			

Ref180

A welder needs to have 180 amp output and is to be connected to a 240V , 20A supply . What turn ratio is needed ? What voltage would be supplied to the electrode at output?

A	9, 26.6V	B	18, 26.6V
C	9, 13.3V	D	18, 13.3V
Answer			

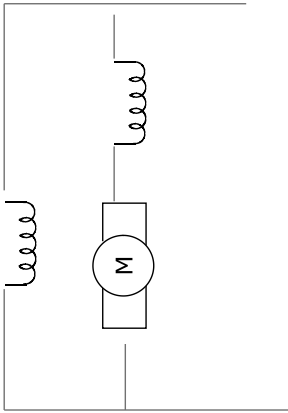
Ref181

For supply voltage 240V, 4 KW load , calculate the current for $\phi = 60$ degree

A	66.6A	B	13A
C	100A	D	33.3A
Answer			

Ref182

The following connection is



A	Series DC Machine	B	Shunt DC Machine
C	Long Shunt Compound DC Machine	D	Short Shunt Compound DC Machine
Answer			

Ref183

Left hand rule is applied for

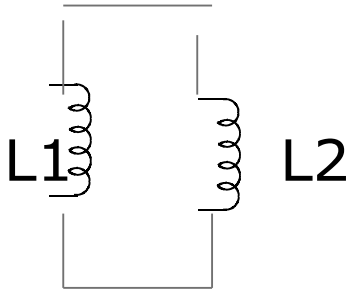
A	DC Generator	B	DC Motor
C			
Answer		B	

Ref184

Which one is a reduced voltage starter

A	Direct Online Starter	B	Star delta starter
C	Forward reverse starter	D	Dynamic braking
Answer			

Ref175



A	$L_{\text{total}} = L_1 + L_2$	B	$L_{\text{total}} = L_1 L_2 / (L_1 + L_2)$
C	$L_{\text{total}} = 1 / (L_1 + L_2)$	D	$L_{\text{total}} = L_1 - L_2$
Answer			