EET 272 Quiz 2 Review

Chapters 23-27

Across The Line, XL, R,
Autotransformer and Y-Δ Starting

What is the difference between Open and Closed Transitioning? (Think of the applied voltage)

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If Resistor or Inductor (R/XL) Starting is used to start a motor, how are they removed at the right time? Specifically, what do the contacts do?

…

What is “Across the Line” Starting?

…

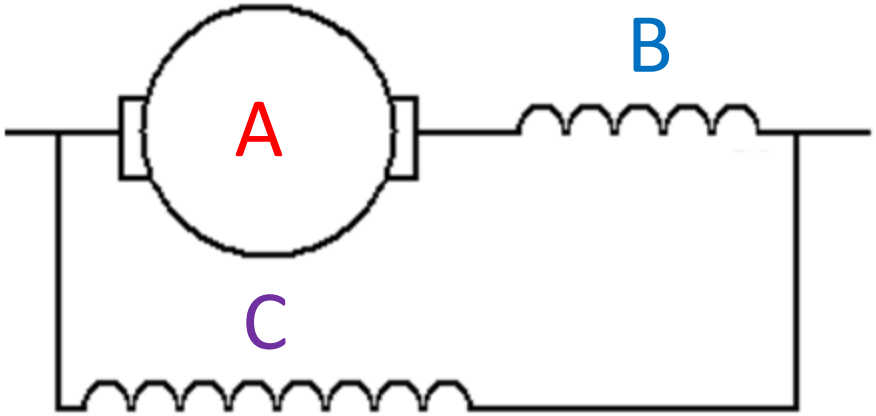
On what kinds of motors is it used?

Why is arcing in AC not as bad as DC?

What advantage does XL starting offer, other than reduced heat (Inductive Principle)? …

Why might Across the Line Starting not be a good option? Think of the Power-System.

What are the parts of this motor?



A=_____

B=_____

C=_____

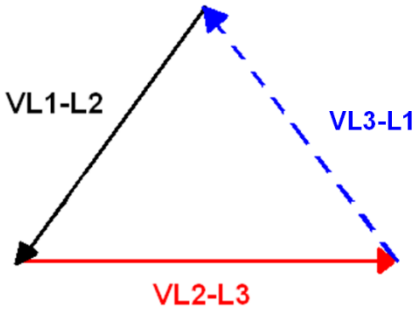
What is the main advantage of a series-connected motor?

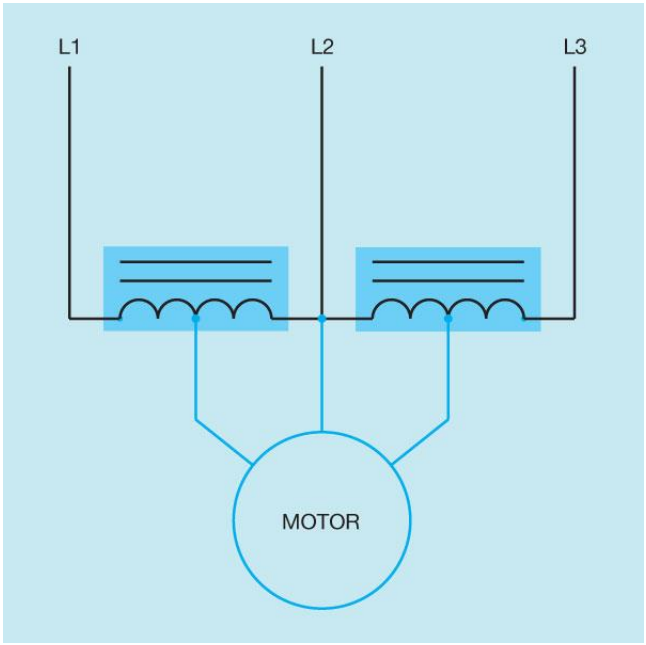
What is the main advantage of a shunt-connected motor?

What is the danger of a series-connected motor?

How does Autotransformer Starting differ from R/XL Starting? (What is reduced?)

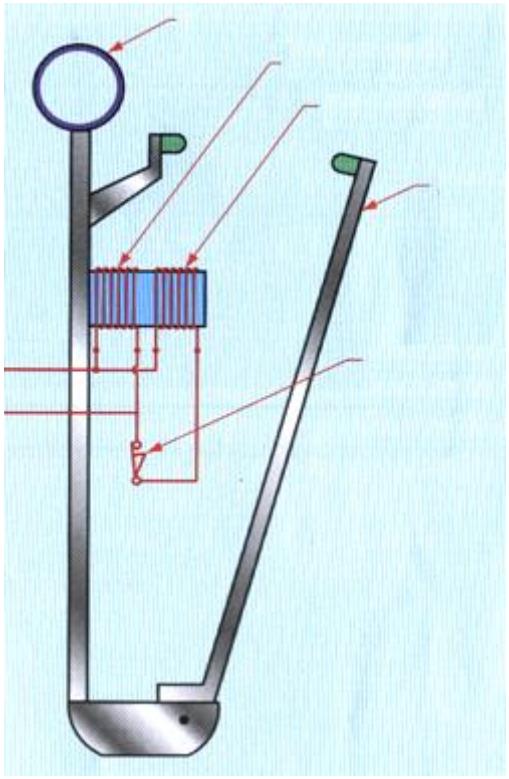
Frequently in ATX starting only 2 Transformers are used for a 3-Phase motor. What is this configuration called?





What are the 2 conditions of Y-Δ starting? (Leads and design)

What electromagnetic “Arc-Stretcher” may be used to help reduce a DC arc across contacts? (Think of a birthday cake)



How is the direction of a 3-Phase Motor reversed?

When a motor is first started, or has a locked-rotor, how much current can it draw?

…

What is the advantage of starting a motor in Wye verses Delta configuration? …