

Department of Electrical Engineering

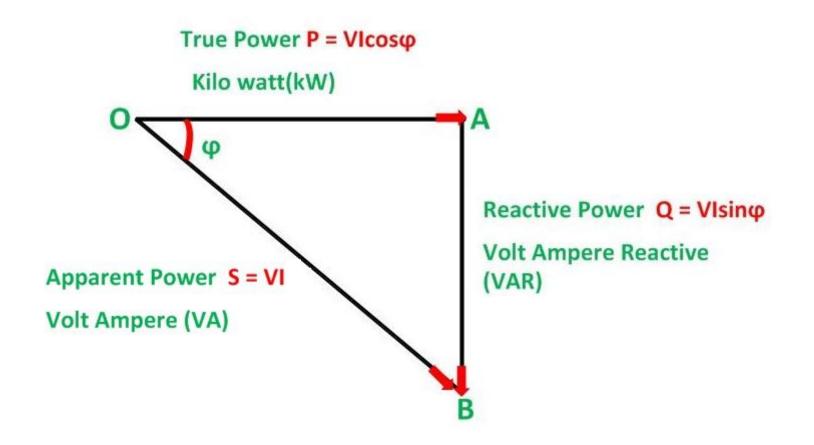


Unit 2 – Lecture 37 - CONCEPT OF POWER FACTOR IMPROVEMENT

Department of Electrical & Electronics Engineering

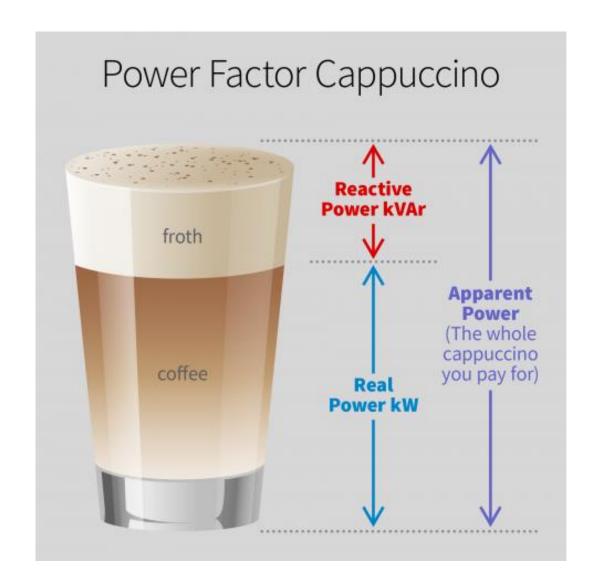


Power Factor



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Power Factor



PES

Power Factor





Importance of Power Factor

- I²R Losses is reduced
- Reactive power will get reduced
- A higher Power Factor will help in utilizing the full capacity of electrical system
- Improves the performance of the motor



Text Book & References

Text Book:

"Electrical and Electronic Technology" E. Hughes (Revised by J. Hiley, K. Brown & I.M Smith), 11th Edition, Pearson Education, 2012.

Reference Books:

- 1. "Basic Electrical Engineering Revised Edition", D. C. Kulshreshta, Tata- McGraw-Hill, 2012.
- 2. "Basic Electrical Engineering", K Uma Rao, Pearson Education, 2011.
- 3. "Engineering Circuit Analysis", William Hayt Jr.,
- Jack E. Kemmerly & Steven M. Durbin, 8th Edition, McGraw-Hill, 2012.
- 4. Google images



THANK YOU

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