



First step is given the real power (56.5 MW) and reactive power (31.7 Mvar) find the Apparent power (MVA)

$$\text{Apparent power} = \sqrt{\text{true power}^2 + \text{reactive power}^2}$$

$$\text{Apparent power} = \sqrt{56.50^2 + 31.70^2}$$

$$\text{Apparent power} = 64.78 \text{ MVA}$$

