

(b) Transformer A is rated at 300 kVA with an impedance of $(0.09 + j0.18) \Omega$

Transformer B is rated at 200 kVA with an impedance of $(0.09 + j0.23) \Omega$

If these transformers are connected in parallel to supply a common load, determine the percentage overload on B when A supplies its full load at p.f. 0.45 lag.