

**QUESTION 1 [25 MARKS]**

A countershaft carrying two V-belt pulleys is shown in **Figure 1**. Pulley *A* receives power from a motor through a belt with the belt tensions shown. The power is transmitted through the shaft and delivered to the belt on pulley *B*. Assume the belt tension on the loose side at *B* is 15% of the tension on the right side. The shaft rotates at 1200 rpm. The desired ball bearing life is 15000 hours, an application factor of 1.2 and 99% reliability.

- (a) Determine the tensions in the belt on pulley *B*, assuming the shaft is running at a constant speed.  $T_1 = 2880 \text{ N}$ ,  $T_2 = 432 \text{ N}$  [5 Marks]
- (b) Find the magnitudes of the bearing reaction forces, assuming the bearings act as a simple support.  $R_c = 1794 \text{ N}$ ,  $R_o = -3036 \text{ N}$  [5 Marks]
- (c) Find the suitable 02-series ball bearing for point *O* and point *C*. [15 Marks]

Point *O*: 02-75 mm deep groove ball bearing with  $C_{10} = 66.3 \text{ kN}$   
 Point *C*: 02-55 mm deep groove ball bearing with  $C_{10} = 43.6 \text{ kN}$

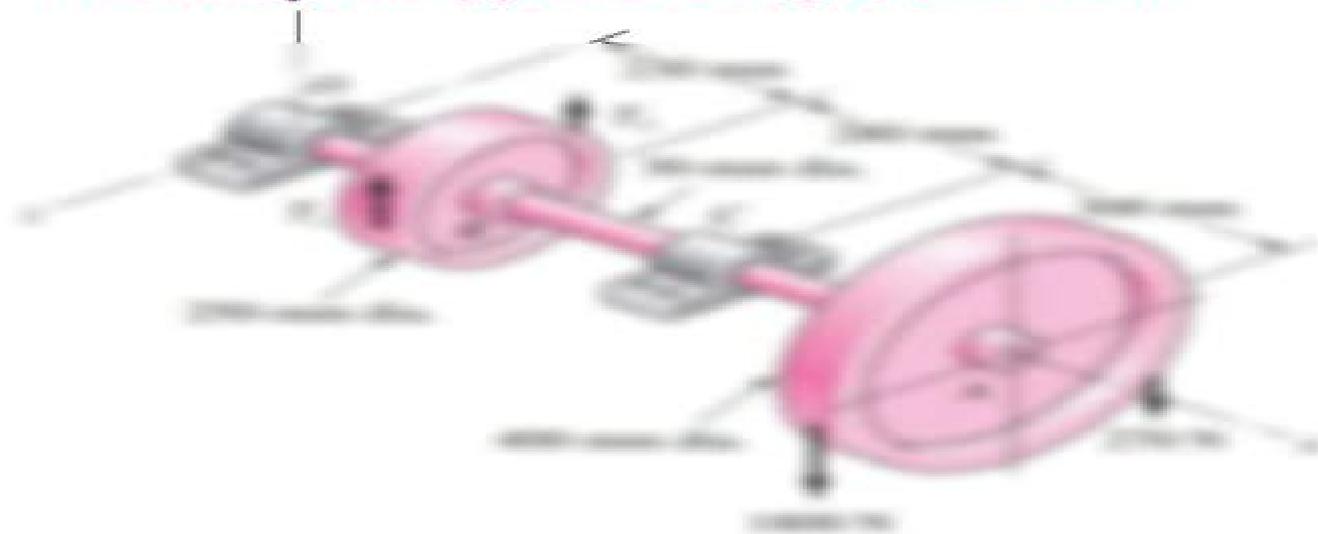


Figure 1: Countershaft with two V-belt pulleys

# Electrical Machine Design Questions Answer

**BM King**



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