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Chapter 11, Problem 32P (4 Bookmarks) Show all steps: ON

Problem

The figure shown is a geared countershaft with an overhanging pinion at C. Select an angular-contact ball bearing from Table 11-2 for mounting at O and an 02-series cylindrical roller bearing from Table 11-3 for mounting at B. The force on gear A is $F_A = 5600$ lbf, and the shaft is to run at a speed of 420 rev/min. Solution of the statics problem gives force of bearings against the shaft at O as $R_O = 2387j + 467k$ lbf, and at B as $R_B = 316j - 1615k$ lbf. Specify the bearings required, using an application factor of 1.2, a desired life of 40 kh, and a combined reliability goal of 0.95, assuming distribution data from manufacturer 2 in Table 11-6.

Problem 11-32 Dimensions in inches.

Table 11-2 Dimensions and Load Ratings for Single-Row 02-Series Deep-Groove and Angular-Contact Ball Bearings

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