



# BEARING DRIVESHAFT, INC.



7096 BM Bearing 2D drawings and 3D CAD models

480 mm x 700 mm x 100 mm SKF 7096 BM  
angular contact ball bearings

Bearing No. 7096 BM

|   |                |
|---|----------------|
| Size                                      | 700x480x100 mm |
| Bore Diameter                             | 700 mm         |
| Outer Diameter                            | 480 mm         |
| Width                                     | 100 mm         |
| d   | 480 mm         |
| D   | 700 mm         |
| B   | 100 mm         |
| d <sub>1</sub>                            | 567 mm         |
| d <sub>2</sub>                            | 524 mm         |
| D <sub>1</sub>                            | 617 mm         |
| a   | 298 mm         |
| r <sub>1,2</sub> - min.                   | 6 mm           |
| r <sub>3,4</sub> - min.                   | 3 mm           |
| d <sub>a</sub> - min.                     | 503 mm         |
| D <sub>a</sub> - max.                     | 677 mm         |
| D <sub>b</sub> - max.                     | 687 mm         |
| r <sub>a</sub> - max.                     | 5 mm           |
| r <sub>b</sub> - max.                     | 2.5 mm         |
| Basic dynamic load rating - C             | 624 kN         |
| Basic static load rating - C <sub>0</sub> | 1340 kN        |
| Fatigue load limit - P <sub>u</sub>       | 24 kN          |
| Reference speed                           | 850 r/min      |
| Limiting speed                            | 900 r/min      |
| Calculation factor - k <sub>r</sub>       | 0.083          |



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|                                |         |
|--------------------------------|---------|
| Calculation factor - $k_a$     | 0.9     |
| Calculation factor - e         | 1.14    |
| Calculation factor - X         | 0.35    |
| Calculation factor - $Y_0$     | 0.26    |
| Calculation factor - $Y_1$     |         |
| Calculation factor - $Y_2$     | 0.57    |
| $d_1$                          | 567 mm  |
| $d_2$                          | 524 mm  |
| $D_1$                          | 617 mm  |
| $r_{1,2}$ min.                 | 6 mm    |
| $r_{3,4}$ min.                 | 3 mm    |
| $d_a$ min.                     | 503 mm  |
| $D_a$ max.                     | 677 mm  |
| $D_b$ max.                     | 687 mm  |
| $r_a$ max.                     | 5 mm    |
| $r_b$ max.                     | 2.5 mm  |
| Basic dynamic load rating C    | 624 kN  |
| Basic static load rating $C_0$ | 1340 kN |
| Fatigue load limit $P_u$       | 24 kN   |
| Calculation factor A           | 29.4    |
| Calculation factor $k_r$       | 0.083   |
| Calculation factor e           | 1.14    |
| Calculation factor X           | 0.35    |
| Calculation factor $Y_0$       | 0.26    |
| Calculation factor $Y_2$       | 0.57    |
| Mass bearing                   | 125 kg  |