

**FAG****23956-K-MB-C3** [↗](#)

## Spherical Roller Bearing

Spherical roller bearing 239..-K-MB,  
symmetric 3 ribs

## Technical information

**Your current product variant**

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Bore type                 | K            | Tapered, taper 1:12               |
| Cage                      | MB           | Solid brass cage                  |
| Radial internal clearance | C3 (Group 3) | Internal clearance larger than CN |
| Relubrication facility    | Standard     |                                   |

**Main Dimensions & Performance Data**

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 280 mm      | Bore diameter                     |
| D           | 380 mm      | Outside diameter                  |
| B           | 75 mm       | Width                             |
| $C_r$       | 970.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$    | 2.040.000 N | Basic static load rating, radial  |
| $C_{ur}$    | 133.000 N   | Fatigue load limit, radial        |
| $n_G$       | 2.000 1/min | Limiting speed                    |
| $n_{gr}$    | 1.100 1/min | Reference speed                   |
| $\approx m$ | 23,93 kg    | Weight                            |

**Mounting dimensions**

|              |          |                                       |
|--------------|----------|---------------------------------------|
| $d_{a \min}$ | 290,2 mm | Minimum diameter shaft shoulder       |
| $D_{a \max}$ | 369,8 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 2,1 mm   | Maximum recess radius                 |
| $d_{a \max}$ | 303 mm   | Maximum diameter of shaft shoulder    |
| $d_{b \min}$ | 290 mm   | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 12 mm    | Minimum cavity width of the sleeve    |



### Dimensions

|            |        |                             |
|------------|--------|-----------------------------|
| $r_{\min}$ | 2,1 mm | Minimum chamfer dimension   |
| $D_1$      | 350 mm | Bore diameter outer ring    |
| $d_s$      | 8 mm   | Diameter lubrication hole   |
| $n_s$      | 15 mm  | Width of lubricating groove |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 200 °C | Operating temperature max. |

### Calculation factors

|       |      |  |
|-------|------|--|
| $e$   | 0,18 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 3,76 | Dynamic axial load factor  |
| $Y_2$ | 5,59 | Dynamic axial load factor  |
| $Y_0$ | 3,67 | Static axial load factor   |

### Additional information

|         |                   |
|---------|-------------------|
| H3956   | Adapter sleeve    |
| AH3956G | Withdrawal sleeve |



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Large bearing
-  Static angular error and misalignment
-  Dynamic angular error and misalignment