



FAG

**23076-BEA-XL-K-MB1-C4**

## Spherical Roller Bearing

Spherical roller bearing 230..-BEA-XL-K-MB1, symmetric 2 outer ribs with rib washer

X-life

## Technical information



## Your current product variant

|                           |              |                                   |
|---------------------------|--------------|-----------------------------------|
| Design                    | BEA          | With lose center lip ring         |
| Bore type                 | K            | Tapered, taper 1:12               |
| Cage                      | MB1          | Solid brass cage                  |
| Radial internal clearance | C4 (Group 4) | Internal clearance larger than C3 |
| Relubrication facility    | Standard     |                                   |

## Main Dimensions &amp; Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 380 mm      | Bore diameter                     |
| D        | 560 mm      | Outside diameter                  |
| B        | 135 mm      | Width                             |
| $C_r$    | 2.900.000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 5.000.000 N | Basic static load rating, radial  |
| $C_{ur}$ | 420.000 N   | Fatigue load limit, radial        |
| $n_G$    | 1.230 1/min | Limiting speed                    |
| $n_{gr}$ | 740 1/min   | Reference speed                   |
| $m$      | 108,24 kg   | Weight                            |



### Mounting dimensions

|              |        |                                       |
|--------------|--------|---------------------------------------|
| $d_{a \min}$ | 398 mm | Minimum diameter shaft shoulder       |
| $D_{a \max}$ | 542 mm | Maximum diameter of housing shoulder  |
| $r_{a \max}$ | 4 mm   | Maximum recess radius                 |
| $d_{a \max}$ | 422 mm | Maximum diameter of shaft shoulder    |
| $d_{b \min}$ | 396 mm | Minimum cavity diameter of the sleeve |
| $B_{a \min}$ | 15 mm  | Minimum cavity width of the sleeve    |

### Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 5 mm     | Minimum chamfer dimension   |
| $D_1$      | 508,1 mm | Bore diameter outer ring    |
| $d_s$      | 12,5 mm  | Diameter lubrication hole   |
| $n_s$      | 23,5 mm  | Width of lubricating groove |

### Temperature range

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

### Calculation factors

|       |      |  |
|-------|------|--|
| $e$   | 0,21 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 3,17 | Dynamic axial load factor  |
| $Y_2$ | 4,72 | Dynamic axial load factor  |
| $Y_0$ | 3,1  | Static axial load factor   |

### Additional information

|           |                   |
|-----------|-------------------|
| H3076-HG  | Adapter sleeve    |
| AH3076G-H | 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