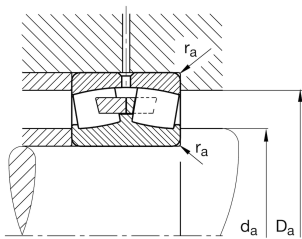


**FAG****230/750-MB**

## Spherical Roller Bearing

Spherical roller bearing 230..-MB, symmetric  
3 ribs

## Technical information



## Your current product variant

|                           |              |                           |
|---------------------------|--------------|---------------------------|
| Bore type                 | Z            | Cylindrical               |
| Cage                      | MB           | Solid brass cage          |
| Radial internal clearance | CN (Group N) | Normal internal clearance |
| Relubrication             | Standard     |                           |

## Main Dimensions &amp; Performance Data

|          |              |                                   |
|----------|--------------|-----------------------------------|
| d        | 750 mm       | Bore diameter                     |
| D        | 1.090 mm     | Outside diameter                  |
| B        | 250 mm       | Width                             |
| $C_r$    | 8.500.000 N  | Basic dynamic load rating, radial |
| $C_{0r}$ | 19.100.000 N | Basic static load rating, radial  |
| $C_{ur}$ | 1.030.000 N  | Fatigue load limit, radial        |
| $n_G$    | 550 1/min    | Limiting speed                    |
| $n_{gr}$ | 305 1/min    | Reference speed                   |
| $m$      | 798 kg       | Weight                            |

## Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \min}$ | 778 mm   | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 1.062 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 6 mm     | Maximum recess radius                |



## Dimensions

|            |          |                             |
|------------|----------|-----------------------------|
| $r_{\min}$ | 7,5 mm   | Minimum chamfer dimension   |
| $D_1$      | 990,9 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

|       |      |  |
|-------|------|--|
| $e$   | 0,22 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y_1$ | 3,01 | Dynamic axial load factor  |
| $Y_2$ | 4,48 | Dynamic axial load factor  |
| $Y_0$ | 2,94 | Static axial load factor   |

## Characteristics

|   |  |
|---|--|
|  | 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 |