

**FAG****718/750-MPB-P5-UL**

Angular contact ball bearing

Angular contact ball bearing 718..-MPB,  
single row, solid brass cage

## Technical information

**Your current product variant**

|  |         |   |
|--|---------|---|
| Type of Seal   | Without | Not sealed                              |
| Cage   | MPB     | Solid brass cage, inner ring guided     |
| Tolerance class                                      | P5      | Class5 (P5), better than P6             |
| Dimensional / heat stabilization                     | S1      | Rings dimensional stabilized up to 200° |
| Bearing with matched conditions for fitting in pairs | UL      | Bearing set with light preload          |
| Lubricant  | Without | Bearing not greased                     |

**Main Dimensions & Performance Data**

|             |             |                                   |
|-------------|-------------|-----------------------------------|
| d           | 750 mm      | Bore diameter                     |
| D           | 920 mm      | Outside diameter                  |
| B           | 78 mm       | Width                             |
| $C_r$       | 640.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$    | 1.630.000 N | Basic static load rating, radial  |
| $C_{ur}$    | 32.000 N    | Fatigue load limit, radial        |
| $n_G$       | 940 1/min   | Limiting speed                    |
| $n_{gr}$    | 485 1/min   | Reference speed                   |
| $\approx m$ | 110,3 kg    | Weight                            |



### Mounting dimensions

|               |          |                                      |
|---------------|----------|--------------------------------------|
| $d_{a \min}$  | 768 mm   | Minimum diameter of shaft shoulder   |
| $D_{a \max}$  | 902 mm   | Maximum diameter of housing shoulder |
| $D_{b \max}$  | 911,2 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 4 mm     | Maximum fillet radius of shaft       |
| $r_{a1 \max}$ | 2 mm     | Maximum fillet radius of housing     |

### Dimensions

|              |           |   |
|--------------|-----------|---|
| $r_{\min}$   | 5 mm      | Minimum chamfer dimension                         |
| $r_{1 \min}$ | 2 mm      | Minimum chamfer dimension                         |
| $D_1$        | 857,45 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 814,9 mm  | Shoulder diameter on inner ring wide side face    |
| $a$          | 280 mm    | Distance between the apexes of the pressure cones |
| $\alpha$     | 30 °      | Contact angle                                     |

### Temperature range

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

### Additional information

|              |                   |  |
|--------------|-------------------|--|
| $V_{\max}$   | -18 $\mu\text{m}$ | Preload per set max.                             |
| Tol (+)      | 26 $\mu\text{m}$  | Tolerance for axial clearance or preload per set |
| $F_{V \max}$ | 4.923 N           | Preload force                                    |



### Characteristics

---

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Large bearing