

**FAG****7314-B-XL-MP**

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-MP,  
single row, X-life, solid brass cage**X-life**

## Technical information



## Your current product variant

|                                  |         |   |
|----------------------------------|---------|---|
| Design variant                   | B       | B                                       |
| Sealing                          | Without | Not sealed                              |
| Cage                             | MP      | Solid brass cage, ball guided           |
| Tolerance class                  | PN      | Normal (ISO 492:2023)                   |
| Dimensional / heat stabilization | S0      | Rings dimensional stabilized up to 150° |
| Lubricant                        | Without | Bearing not greased                     |

## Main Dimensions &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 70 mm       | Bore diameter                     |
| D               | 150 mm      | Outside diameter                  |
| B               | 35 mm       | Width                             |
| C <sub>r</sub>  | 126,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 93,000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 6,200 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 7,800 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4,750 1/min | Reference speed                   |
| m               | 2.86 kg     | Weight                            |



### Mounting dimensions

|               |        |                                      |
|---------------|--------|--------------------------------------|
| $d_{a \min}$  | 82 mm  | Minimum diameter of shaft shoulder   |
| $D_{a \max}$  | 138 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$  | 143 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 2.1 mm | Maximum fillet radius of shaft       |
| $r_{a1 \max}$ | 1 mm   | Maximum fillet radius of housing     |

### Dimensions

|              |           |   |
|--------------|-----------|---|
| $r_{\min}$   | 2.1 mm    | Minimum chamfer dimension                         |
| $r_{1 \min}$ | 1.1 mm    | Minimum chamfer dimension                         |
| $D_1$        | 119.62 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 102.26 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 63.7 mm   | Distance between the apexes of the pressure cones |
| $\alpha$     | 40 °      | Contact angle                                     |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

### Characteristics

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