

**FAG****7217-B-XL-JP-UA**

Angular contact ball bearing

Angular contact ball bearing 72..-B-XL-JP, single row, X-life, steel sheet metal cage

**X-life**

## Technical information

**Your current product variant**

|  |         |   |
|--|---------|---|
| Design variant                                       | B       | B   |
| Type of Seal   | Without | Not sealed                                      |
| Cage   | JP      | Steel sheet metal                               |
| Tolerance class                                      | PN      | Normal (PN)                                     |
| Dimensional / heat stabilization                     | S0      | Rings dimensional stabilized up to 150°         |
| Bearing with matched conditions for fitting in pairs | UA      | Bearing set with small axial internal clearance |
| Lubricant  | Without | Bearing not greased                             |

**Main Dimensions & Performance Data**

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 85 mm       | Bore diameter                     |
| D        | 150 mm      | Outside diameter                  |
| B        | 28 mm       | Width                             |
| $C_r$    | 97.000 N    | Basic dynamic load rating, radial |
| $C_{0r}$ | 86.000 N    | Basic static load rating, radial  |
| $C_{ur}$ | 5.500 N     | Fatigue load limit, radial        |
| $n_G$    | 5.900 1/min | Limiting speed                    |
| $n_{gr}$ | 4.750 1/min | Reference speed                   |
| $m$      | 1,871 kg    | Weight                            |



### Mounting dimensions

|               |          |                                      |
|---------------|----------|--------------------------------------|
| $d_{a \min}$  | 96 mm    | Minimum diameter of shaft shoulder   |
| $D_{a \max}$  | 139 mm   | Maximum diameter of housing shoulder |
| $D_{b \max}$  | 144,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 2 mm     | Maximum fillet radius of shaft       |
| $r_{a1 \max}$ | 1 mm     | Maximum fillet radius of housing     |

### Dimensions

|              |          |   |
|--------------|----------|---|
| $r_{\min}$   | 2 mm     | Minimum chamfer dimension                         |
| $r_{1 \min}$ | 1 mm     | Minimum chamfer dimension                         |
| $D_1$        | 125 mm   | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 110,6 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 63,3 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. |

### Additional information

|            |                  |  |
|------------|------------------|--|
| $A_{\min}$ | 54 $\mu\text{m}$ | Axial clearance per set min.                     |
| Tol (+)    | 12 $\mu\text{m}$ | Tolerance for axial clearance or preload per set |

### Characteristics

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