

**FAG****7309-B-XL-JP-UA**

Angular contact ball bearing

Angular contact ball bearing 73..-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 | P6 | Class 6 (ISO 492:2023) |
| 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 | 45 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 25 mm | Width |
| C_r | 69.000 N | Basic dynamic load rating, radial |
| C_{0r} | 43.000 N | Basic static load rating, radial |
| C_{ur} | 3.000 N | Fatigue load limit, radial |
| n_G | 9.300 1/min | Limiting speed |
| n_{gr} | 6.500 1/min | Reference speed |
| $\approx m$ | 0,85 kg | Weight |



Mounting dimensions

| | | |
|---------------|---------|--------------------------------------|
| $d_{a \min}$ | 54 mm | Minimum diameter of shaft shoulder |
| $D_{a \max}$ | 91 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$ | 94,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1,5 mm | Maximum fillet radius of shaft |
| $r_{a1 \max}$ | 1 mm | Maximum fillet radius of housing |

Dimensions

| | | |
|--------------|---------|---|
| r_{\min} | 1,5 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 1 mm | Minimum chamfer dimension |
| D_1 | 79,8 mm | Shoulder diameter on outer ring wide side face |
| d_1 | 66,7 mm | Shoulder diameter on inner ring wide side face |
| a | 42,9 mm | Distance between the apexes of the pressure cones |
| α | 40 ° | Contact angle |

Temperature range

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

Additional information

| | | |
|------------|------------------|--|
| A_{\min} | 44 μm | Axial clearance per set min. |
| Tol (+) | 8 μm | Tolerance for axial clearance or preload per set |

Characteristics

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