

**FAG****7303-B-XL-2RS-TVP-UO**

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-2RS-TVP, single row, X-life, seals, plastic cage

**X-life**

Technical information



Your current product variant

| | | |
|--|------|---|
| Design variant | B | B |
| Type of Seal | 2RS | Contact seal on both sides |
| Cage | TVP | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class | P6 | Class6 (P6), better than PN |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |
| Bearing with matched conditions for fitting in pairs | UO | Bearing set clearance-free in O or X arrangement |
| Lubricant | GA14 | Ball bearing grease, low noise |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 17 mm | Bore diameter |
| D | 47 mm | Outside diameter |
| B | 14 mm | Width |
| C _r | 18.700 N | Basic dynamic load rating, radial |
| C _{0r} | 9.000 N | Basic static load rating, radial |
| C _{ur} | 620 N | Fatigue load limit, radial |
| n _G | 9.800 1/min | Limiting speed |
| ≈m | 0,107 kg | Weight |



Mounting dimensions

| | | |
|---------------|---------|--------------------------------------|
| $d_{a \min}$ | 22,6 mm | Minimum diameter of shaft shoulder |
| $D_{a \max}$ | 41,4 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$ | 42,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum fillet radius of shaft |
| $r_{a1 \max}$ | 0,6 mm | Maximum fillet radius of housing |

Dimensions

| | | |
|--------------|----------|---|
| r_{\min} | 1 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,6 mm | Minimum chamfer dimension |
| D_1 | 35,54 mm | Shoulder diameter on outer ring wide side face |
| D_2 | 37,2 mm | Caliber diameter on outer ring wide side face |
| D_3 | 42,63 mm | Caliber diameter on outer ring small side face |
| d_1 | 29,19 mm | Shoulder diameter on inner ring wide side face |
| d_2 | 26,13 mm | Caliber diameter on inner ring wide side face |
| a | 20,4 mm | Distance between the apexes of the pressure cones |
| α | 40 ° | Contact angle |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -20 °C | Operating temperature min. |
| T_{\max} | 100 °C | Operating temperature max. |

Additional information

| | | |
|------------|-----------------|--|
| A_{\min} | 0 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



Lifetime lubrication, freedom from maintenance



Grease Lubrication



Sealed on both sides