



FAG

**7204-B-XL-TVP-UB**

Angular contact ball bearing

Angular contact ball bearing 72.-B-XL-TVP,  
single row, X-life, plastic cage

X-life

## Technical information



## Your current product variant

|  |         |   |
|--|---------|---|
| Design variant                                       | B       | B   |
| Type of Sealing                                      | Without | Not sealed  |
| 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 | UB      | Bearing set with smaller axial internal clearance than UA |
| Lubricant  | Without | Bearing not greased                                       |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 20 mm        | Bore diameter                     |
| D               | 47 mm        | Outside diameter                  |
| B               | 14 mm        | Width                             |
| C <sub>r</sub>  | 14.900 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 7.800 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 540 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 21.600 1/min | Limiting speed                    |
| n <sub>gr</sub> | 15.400 1/min | Reference speed                   |
| ≈m              | 0,103 kg     | Weight                            |



### Mounting dimensions

|               |         |                                      |
|---------------|---------|--------------------------------------|
| $d_{a \min}$  | 25,6 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                         |
| $D_1$        | 37,04 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 30,54 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 21,1 mm  | Distance between the apexes of the pressure cones |
| $\alpha$     | 40 °     | Contact angle                                     |

### Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 120 °C | Operating temperature max. |

### Additional information

|            |                  |  |
|------------|------------------|--|
| $A_{\min}$ | 16 $\mu\text{m}$ | Axial clearance per set min.                     |
| Tol (+)    | 8 $\mu\text{m}$  | Tolerance for axial clearance or preload per set |

### Characteristics

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