



FAG

**7202-B-XL-TVP-P5-UL**

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   |
| Sealing  | Without | Not sealed  |
| Cage   | TVP     | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class                                      | P5      | Class 5 (ISO 492:2023)                                  |
| Dimensional / heat stabilization                     | S0      | Rings dimensional stabilized up to 150°                 |
| Bearing with matched conditions for fitting in pairs | UL      | Bearing set with light preload                          |
| Lubricant  | Without | Bearing not greased                                     |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 15 mm        | Bore diameter                     |
| D               | 35 mm        | Outside diameter                  |
| B               | 11 mm        | Width                             |
| C <sub>r</sub>  | 8.900 N      | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 4.450 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 305 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 29.500 1/min | Limiting speed                    |
| n <sub>gr</sub> | 19.100 1/min | Reference speed                   |
| ≈m              | 0,044 kg     | Weight                            |



### Mounting dimensions

|               |         |                                      |
|---------------|---------|--------------------------------------|
| $d_{a \min}$  | 19,2 mm | Minimum diameter of shaft shoulder   |
| $D_{a \max}$  | 30,8 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$  | 32,6 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 0,6 mm  | Maximum fillet radius of shaft       |
| $r_{a1 \max}$ | 0,3 mm  | Maximum fillet radius of housing     |

### Dimensions

|              |          |   |
|--------------|----------|---|
| $r_{\min}$   | 0,6 mm   | Minimum chamfer dimension                         |
| $r_{1 \min}$ | 0,3 mm   | Minimum chamfer dimension                         |
| $D_1$        | 27,63 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 22,76 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 16 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

|              |                  |  |
|--------------|------------------|--|
| $V_{\max}$   | -4 $\mu\text{m}$ | Preload per set max.                             |
| Tol (+)      | 6 $\mu\text{m}$  | Tolerance for axial clearance or preload per set |
| $F_{V \max}$ | 62 N             | Preload force                                    |



### Characteristics

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