

**FAG****X-life****7316-B-XL-TVP-UA**

Angular contact ball bearing

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

## 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                                      | 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 &amp; Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 80 mm       | Bore diameter                     |
| D               | 170 mm      | Outside diameter                  |
| B               | 39 mm       | Width                             |
| C <sub>r</sub>  | 155,000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 124,000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 7,700 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5,200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4,250 1/min | Reference speed                   |
| ≈m              | 3.65 kg     | Weight                            |



Mounting dimensions

|               |        |                                      |
|---------------|--------|--------------------------------------|
| $d_{a\ min}$  | 92 mm  | Minimum diameter of shaft shoulder   |
| $D_{a\ max}$  | 158 mm | Maximum diameter of housing shoulder |
| $D_{b\ max}$  | 163 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$  | 2.1 mm | Maximum fillet radius of shaft       |
| $r_{a1\ max}$ | 1 mm   | Maximum fillet radius of housing     |

Dimensions

|              |          |                                                   |
|--------------|----------|---------------------------------------------------|
| $r_{\ min}$  | 2.1 mm   | Minimum chamfer dimension                         |
| $r_{1\ min}$ | 1.1 mm   | Minimum chamfer dimension                         |
| $D_1$        | 136.7 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 115.7 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 71.9 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

|             |       |                                                  |
|-------------|-------|--------------------------------------------------|
| $A_{\ min}$ | 50 µm | Axial clearance per set min.                     |
| Tol (+)     | 12 µm | Tolerance for axial clearance or preload per set |

Characteristics



Radial load



Axial load in one direction



Grease Lubrication



Oil Lubrication



Not sealed