





FAG

**7305-B-XL-TVP-UB** 

Angular contact ball bearing

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

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                                                      |         |                                                           |
|------------------------------------------------------|---------|-----------------------------------------------------------|
| Design variant                                       | B       | B                                                         |
| Sealing                                              | Without | Not sealed                                                |
| Cage                                                 | TVP     | Solid cage made of glass-fiber reinforced polyamid PA66   |
| 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 | UB      | Bearing set with smaller axial internal clearance than UA |
| Lubricant                                            | Without | Bearing not greased                                       |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 25 mm        | Bore diameter                     |
| D               | 62 mm        | Outside diameter                  |
| B               | 17 mm        | Width                             |
| C <sub>r</sub>  | 30.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 15.800 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.100 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 15.800 1/min | Limiting speed                    |
| n <sub>gr</sub> | 9.800 1/min  | Reference speed                   |
| ≈m              | 220 g        | Masa                              |



Mounting dimensions

|               |         |                                      |
|---------------|---------|--------------------------------------|
| $d_{a\ min}$  | 32 mm   | Minimum diameter of shaft shoulder   |
| $D_{a\ max}$  | 55 mm   | Maximum diameter of housing shoulder |
| $D_{b\ max}$  | 57,8 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

|              |         |                                                   |
|--------------|---------|---------------------------------------------------|
| $r_{\ min}$  | 1,1 mm  | Minimum chamfer dimension                         |
| $r_{1\ min}$ | 0,6 mm  | Minimum chamfer dimension                         |
| $D_1$        | 48 mm   | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 39,9 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 26,8 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

|             |            |                                                  |
|-------------|------------|--------------------------------------------------|
| $Tol\ (+)$  | 8 $\mu m$  | Tolerance for axial clearance or preload per set |
| $A_{\ min}$ | 20 $\mu m$ | Axial clearance per set min.                     |

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia