



FAG

7314-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                                      | PN      | Normal (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               | 70 mm       | Bore diameter                     |
| D               | 150 mm      | Outside diameter                  |
| B               | 35 mm       | Width                             |
| C <sub>r</sub>  | 126.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 93.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 6.200 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 4.750 1/min | Reference speed                   |
| ≈m              | 2,65 kg     | Masa                              |



Mounting dimensions

|               |        |                                      |
|---------------|--------|--------------------------------------|
| $d_{a\ min}$  | 82 mm  | Minimum diameter of shaft shoulder   |
| $D_{a\ max}$  | 138 mm | Maximum diameter of housing shoulder |
| $D_{b\ max}$  | 143 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                         |
| $D_1$        | 119,62 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 102,26 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 63,7 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 (+)     | 12 µm | Tolerance for axial clearance or preload per set |
| $A_{\ min}$ | 27 mm | Axial clearance per set min.                     |

Właściwości

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