



FAG

7312-B-XL-MP-UO

Angular contact ball bearing

Angular contact ball bearing 73..-B-XL-MP,  
single row, X-life, solid brass cage



X-life

Informacje techniczne

Twoja aktualna wersja produktu

|                                                      |         |                                                  |
|------------------------------------------------------|---------|--------------------------------------------------|
| Design variant                                       | B       | B                                                |
| Sealing                                              | Without | Not sealed                                       |
| Cage                                                 | MP      | Solid brass cage, ball guided                    |
| 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 | UO      | Bearing set clearance-free in O or X arrangement |
| Lubricant                                            | Without | Bearing not greased                              |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 60 mm       | Bore diameter                     |
| D               | 130 mm      | Outside diameter                  |
| B               | 31 mm       | Width                             |
| C <sub>r</sub>  | 96.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 69.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 4.750 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.300 1/min | Reference speed                   |
| ≈m              | 1,9 kg      | Masa                              |



Mounting dimensions

|               |        |                                      |
|---------------|--------|--------------------------------------|
| $d_{a\ min}$  | 72 mm  | Minimum diameter of shaft shoulder   |
| $D_{a\ max}$  | 118 mm | Maximum diameter of housing shoulder |
| $D_{b\ max}$  | 123 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                         |
| $D_1$        | 103,4 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 87,3 mm  | Shoulder diameter on inner ring wide side face    |
| $a$          | 55,4 mm  | Distance between the apexes of the pressure cones |
| $\alpha$     | 40 °     | Contact angle                                     |

Temperature range

|             |        |                            |
|-------------|--------|----------------------------|
| $T_{\ min}$ | -30 °C | Operating temperature min. |
| $T_{\ max}$ | 150 °C | Operating temperature max. |

Additional information

|             |       |                                                  |
|-------------|-------|--------------------------------------------------|
| Tol (+)     | 12 µm | Tolerance for axial clearance or preload per set |
| $A_{\ min}$ | 0 µm  | Axial clearance per set min.                     |

Właściwości

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