





FAG

**7301-B-XL-TVP-UL** 

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 | UL      | Bearing set with light preload                          |
| Lubricant                                            | Without | Bearing not greased                                     |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 12 mm        | Bore diameter                     |
| D               | 37 mm        | Outside diameter                  |
| B               | 12 mm        | Width                             |
| C <sub>r</sub>  | 12.200 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 5.300 N      | Basic static load rating, radial  |
| C <sub>ur</sub> | 365 N        | Fatigue load limit, radial        |
| n <sub>G</sub>  | 28.000 1/min | Limiting speed                    |
| n <sub>gr</sub> | 16.300 1/min | Reference speed                   |
| ≈m              | 0,06 kg      | Masa                              |



Mounting dimensions

|                     |         |                                      |
|---------------------|---------|--------------------------------------|
| d <sub>a min</sub>  | 17,6 mm | Minimum diameter of shaft shoulder   |
| D <sub>a max</sub>  | 31,4 mm | Maximum diameter of housing shoulder |
| D <sub>b max</sub>  | 32,8 mm | Maximum diameter of housing shoulder |
| r <sub>a max</sub>  | 1 mm    | Maximum fillet radius of shaft       |
| r <sub>a1 max</sub> | 0,6 mm  | Maximum fillet radius of housing     |

Dimensions

|                    |          |                                                   |
|--------------------|----------|---------------------------------------------------|
| r <sub>min</sub>   | 1 mm     | Minimum chamfer dimension                         |
| r <sub>1 min</sub> | 0,6 mm   | Minimum chamfer dimension                         |
| D <sub>1</sub>     | 27,23 mm | Shoulder diameter on outer ring wide side face    |
| d <sub>1</sub>     | 22,29 mm | Shoulder diameter on inner ring wide side face    |
| a                  | 16,3 mm  | Distance between the apexes of the pressure cones |
| α                  | 40 °     | Contact angle                                     |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

Additional information

|                    |       |                                                  |
|--------------------|-------|--------------------------------------------------|
| V <sub>max</sub>   | -4 μm | Preload per set max.                             |
| Tol (+)            | 8 μm  | Tolerance for axial clearance or preload per set |
| F <sub>V max</sub> | 82 N  | Preload force                                    |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia