





FAG

7310-B-XL-TVP-P5-UO

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                                                       |
| Type of Seal                                         | Without | Not sealed                                              |
| Cage                                                 | TVP     | Solid cage made of glass-fiber reinforced polyamid PA66 |
| Tolerance class                                      | P5      | Class 5 (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               | 50 mm       | Bore diameter                     |
| D               | 110 mm      | Outside diameter                  |
| B               | 27 mm       | Width                             |
| C <sub>r</sub>  | 80.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 50.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 3.500 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 8.400 1/min | Limiting speed                    |
| n <sub>gr</sub> | 6.100 1/min | Reference speed                   |
| ≈m              | 1,07 kg     | Masa                              |



### Mounting dimensions

|               |          |                                      |
|---------------|----------|--------------------------------------|
| $d_{a \min}$  | 61 mm    | Minimum diameter of shaft shoulder   |
| $D_{a \max}$  | 99 mm    | Maximum diameter of housing shoulder |
| $D_{b \max}$  | 104,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 2 mm     | Maximum fillet radius of shaft       |
| $r_{a1 \max}$ | 1 mm     | Maximum fillet radius of housing     |

### Dimensions

|              |         |                                                   |
|--------------|---------|---------------------------------------------------|
| $r_{\min}$   | 2 mm    | Minimum chamfer dimension                         |
| $r_{1 \min}$ | 1 mm    | Minimum chamfer dimension                         |
| $D_1$        | 87,6 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 73,1 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 47,1 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 (+)    | 10 $\mu$ m | Tolerance for axial clearance or preload per set |
| $A_{\min}$ | 0 mm       | Axial clearance per set min.                     |

### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia