





FAG

7214-B-XL-TVP-P5-UA

Angular contact ball bearing

Angular contact ball bearing 72...-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                                      | P5      | Class 5 (ISO 492:2023)                                  |
| Dimensional / heat stabilization                     | S0      | Rings dimensional stabilized up to 150°                 |
| Bearing with matched conditions for fitting in pairs | UA      | Bearing set with small axial internal clearance         |
| Lubricant                                            | Without | Bearing not greased                                     |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 70 mm       | Bore diameter                     |
| D               | 125 mm      | Outside diameter                  |
| B               | 24 mm       | Width                             |
| C <sub>r</sub>  | 74.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 62.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 4.300 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 7.200 1/min | Limiting speed                    |
| n <sub>gr</sub> | 5.400 1/min | Reference speed                   |
| ≈m              | 1,08 kg     | Masa                              |



### Mounting dimensions

|               |          |                                      |
|---------------|----------|--------------------------------------|
| $d_{a \min}$  | 79 mm    | Minimum diameter of shaft shoulder   |
| $D_{a \max}$  | 116 mm   | Maximum diameter of housing shoulder |
| $D_{b \max}$  | 119,4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$  | 1,5 mm   | Maximum fillet radius of shaft       |
| $r_{a1 \max}$ | 1 mm     | Maximum fillet radius of housing     |

### Dimensions

|            |           |                                                   |
|------------|-----------|---------------------------------------------------|
| $r_{\min}$ | 1,5 mm    | Minimum chamfer dimension                         |
| $r_1 \min$ | 1 mm      | Minimum chamfer dimension                         |
| $D_1$      | 104,04 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$      | 92,32 mm  | Shoulder diameter on inner ring wide side face    |
| $a$        | 52,9 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 $\mu\text{m}$ | Tolerance for axial clearance or preload per set |
| $A_{\min}$ | 50 $\mu\text{m}$ | Axial clearance per set min.                     |

### Właściwości

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