



FAG

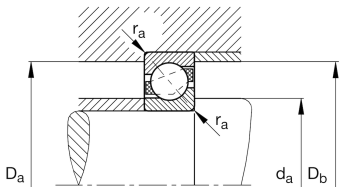
7309-B-XL-TVP

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°                 |
| Lubricant                        | Without | Bearing not greased                                     |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 45 mm       | Bore diameter                     |
| D               | 100 mm      | Outside diameter                  |
| B               | 25 mm       | Width                             |
| C <sub>r</sub>  | 69.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 43.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 3.000 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 9.300 1/min | Limiting speed                    |
| n <sub>gr</sub> | 6.500 1/min | Reference speed                   |
| ≈m              | 0,81 kg     | Masa                              |



Mounting dimensions

|               |         |                                      |
|---------------|---------|--------------------------------------|
| $d_{a\ min}$  | 54 mm   | Minimum diameter of shaft shoulder   |
| $D_{a\ max}$  | 91 mm   | Maximum diameter of housing shoulder |
| $D_{b\ max}$  | 94,4 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                         |
| $D_1$        | 79,8 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 66,7 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 42,9 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. |

Właściwości

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