



FAG

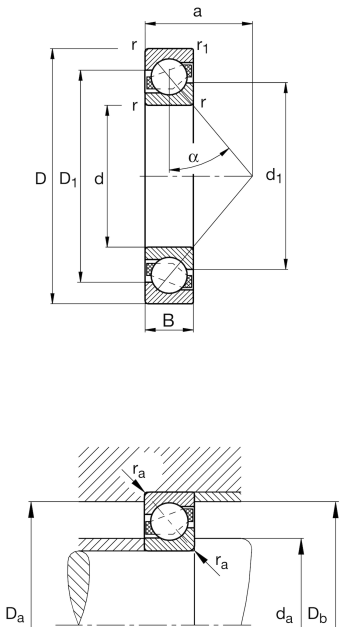
7309-B-XL-TVP-P5-UL

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                                      | P5      | Class 5 (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               | 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              | 0,829 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 |
| α       | 40 °    | Contact angle                                     |

Temperature range

|       |        |                            |
|-------|--------|----------------------------|
| T min | -30 °C | Operating temperature min. |
| T max | 120 °C | Operating temperature max. |

Additional information

|         |       |                                                  |
|---------|-------|--------------------------------------------------|
| V max   | -8 μm | Preload per set max.                             |
| Tol (+) | 6 μm  | Tolerance for axial clearance or preload per set |
| F V max | 462 N | Preload force                                    |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia