



FAG



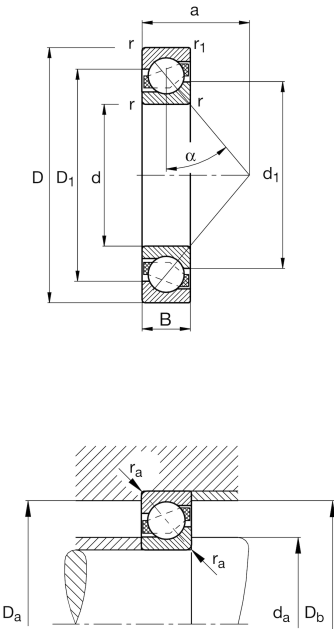
X-life

7222-B-XL-MP-UA

Angular contact ball bearing

Angular contact ball bearing 72...-B-XL-MP,  
single row, X-life, solid brass cage

Technical information



Your current product variant

|                                                      |         |                                                 |
|------------------------------------------------------|---------|-------------------------------------------------|
| Design variant                                       | B       | B                                               |
| Type of Seal                                         | Without | Not sealed                                      |
| Cage                                                 | MP      | Solid brass cage, ball guided                   |
| Tolerance class                                      | PN      | Normal (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               | 110 mm      | Bore diameter                     |
| D               | 200 mm      | Outside diameter                  |
| B               | 38 mm       | Width                             |
| C <sub>r</sub>  | 167.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 154.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 8.600 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 5.600 1/min | Limiting speed                    |
| n <sub>gr</sub> | 3.950 1/min | Reference speed                   |
| m               | 4,98 kg     | Weight                            |



Mounting dimensions

|               |        |                                      |
|---------------|--------|--------------------------------------|
| $d_{a\ min}$  | 122 mm | Minimum diameter of shaft shoulder   |
| $D_{a\ max}$  | 188 mm | Maximum diameter of housing shoulder |
| $D_{b\ max}$  | 193 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$  | 2,1 mm | Maximum fillet radius of shaft       |
| $r_{a1\ max}$ | 1 mm   | Maximum fillet radius of housing     |

Dimensions

|              |          |                                                   |
|--------------|----------|---------------------------------------------------|
| $r_{\min}$   | 2,1 mm   | Minimum chamfer dimension                         |
| $r_{1\ min}$ | 1,1 mm   | Minimum chamfer dimension                         |
| $D_1$        | 165,7 mm | Shoulder diameter on outer ring wide side face    |
| $d_1$        | 144,9 mm | Shoulder diameter on inner ring wide side face    |
| $a$          | 84 mm    | Distance between the apexes of the pressure cones |
| $\alpha$     | 40 °     | Contact angle                                     |

Temperature range

|            |        |                            |
|------------|--------|----------------------------|
| $T_{\min}$ | -30 °C | Operating temperature min. |
| $T_{\max}$ | 150 °C | Operating temperature max. |

Additional information

|            |       |                                                  |
|------------|-------|--------------------------------------------------|
| Tol (+)    | 12 µm | Tolerance for axial clearance or preload per set |
| $A_{\min}$ | 58 mm | Axial clearance per set min.                     |

Characteristics

|                                                                                     |                             |
|-------------------------------------------------------------------------------------|-----------------------------|
|  | Radial load                 |
|  | Axial load in one direction |
|  | Grease Lubrication          |
|  | Oil Lubrication             |
|  | Not sealed                  |