

**FAG****X-life****7221-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 |
| Sealing | 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 | 105 mm | Bore diameter |
| D | 190 mm | Outside diameter |
| B | 36 mm | Width |
| C _r | 155.000 N | Basic dynamic load rating, radial |
| C _{0r} | 142.000 N | Basic static load rating, radial |
| C _{ur} | 8.100 N | Fatigue load limit, radial |
| n _G | 6.000 1/min | Limiting speed |
| n _{gr} | 4.100 1/min | Reference speed |
| ≈m | 4,235 kg | Weight |



Mounting dimensions

| | | |
|---------------|--------|--------------------------------------|
| $d_{a \min}$ | 117 mm | Minimum diameter of shaft shoulder |
| $D_{a \max}$ | 178 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$ | 183 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 | 157,7 mm | Shoulder diameter on outer ring wide side face |
| d_1 | 138,2 mm | Shoulder diameter on inner ring wide side face |
| a | 79,9 mm | Distance between the apexes of the pressure cones |
| α | 40 ° | Contact angle |

Temperature range

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

Additional information

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

Characteristics

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