



FAG

7007-B-XL-TVP-UO

Angular contact ball bearing

Angular contact ball bearing 70..-B-XL-TVP, single row, X-life, plastic cage

X-life

Technical information



Your current product variant

| | | |
|--|---------|---|
| Design variant | B | B |
| Sealing | Without | Not sealed |
| Cage | TVP | Solid cage made of glass-fiber reinforced polyamid PA66 |
| 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 | UO | Bearing set clearance-free in O or X arrangement |
| Lubricant | Without | Bearing not greased |

Main Dimensions & Performance Data

| | | |
|-----------------|--------------|-----------------------------------|
| d | 35 mm | Bore diameter |
| D | 62 mm | Outside diameter |
| B | 14 mm | Width |
| C _r | 24.300 N | Basic dynamic load rating, radial |
| C _{0r} | 17.200 N | Basic static load rating, radial |
| C _{ur} | 1.200 N | Fatigue load limit, radial |
| n _G | 14.700 1/min | Limiting speed |
| n _{gr} | 9.000 1/min | Reference speed |
| ≈m | 0,141 kg | Weight |



Mounting dimensions

| | | |
|---------------|---------|--------------------------------------|
| $d_{a \min}$ | 39,6 mm | Minimum diameter of shaft shoulder |
| $D_{a \max}$ | 57,4 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$ | 58,8 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm | Maximum fillet radius of shaft |
| $r_{a1 \max}$ | 0,6 mm | Maximum fillet radius of housing |

Dimensions

| | | |
|--------------|----------|---|
| r_{\min} | 1 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 0,6 mm | Minimum chamfer dimension |
| D_1 | 53,36 mm | Shoulder diameter on outer ring wide side face |
| d_1 | 47,02 mm | Shoulder diameter on inner ring wide side face |
| a | 27,9 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

| | | |
|------------|-----------------|--|
| A_{\min} | 0 μm | Axial clearance per set min. |
| Tol (+) | 8 μm | Tolerance for axial clearance or preload per set |

Characteristics

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