



FAG

7311-B-XL-TVP

Angular contact ball bearing

Angular contact ball bearing 73..-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 | 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 | 55 mm | Bore diameter |
| D | 120 mm | Outside diameter |
| B | 29 mm | Width |
| C_r | 91,000 N | Basic dynamic load rating, radial |
| C_{0r} | 61,000 N | Basic static load rating, radial |
| C_{ur} | 4,250 N | Fatigue load limit, radial |
| n_G | 7,700 1/min | Limiting speed |
| n_{gr} | 5,600 1/min | Reference speed |
| $\approx m$ | 1.38 kg | Weight |



Mounting dimensions

| | | |
|---------------|----------|--------------------------------------|
| $d_{a \min}$ | 66 mm | Minimum diameter of shaft shoulder |
| $D_{a \max}$ | 109 mm | Maximum diameter of housing shoulder |
| $D_{b \max}$ | 114.4 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum fillet radius of shaft |
| $r_{a1 \max}$ | 1 mm | Maximum fillet radius of housing |





Dimensions

| | | |
|--------------|---------|---|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| $r_{1 \min}$ | 1 mm | Minimum chamfer dimension |
| D_1 | 95.3 mm | Shoulder diameter on outer ring wide side face |
| d_1 | 80.3 mm | Shoulder diameter on inner ring wide side face |
| a | 51.2 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. |

Characteristics

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