

**FAG****7007-B-XL-2RS-TVP**

Angular contact ball bearing

Angular contact ball bearing 70..-B-XL-2RS-TVP, single row, X-life, seals, plastic cage

**X-life**

Technical information



Your current product variant

| | | |
|----------------------------------|------|---|
| Design variant | B | B |
| Sealing | 2RS | Contact seal on both sides |
| 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° |
| Lubricant | GA14 | Ball bearing grease, low noise |

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 | 6,000 1/min | Limiting speed |
| $\approx m$ | 0.156 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_2 | 54 mm | Caliber diameter on outer ring wide side face |
| D_3 | 58.94 mm | Caliber diameter on outer ring small side face |
| d_1 | 47.02 mm | Shoulder diameter on inner ring wide side face |
| d_2 | 43.64 mm | Caliber 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} | -20 °C | Operating temperature min. |
| T_{\max} | 100 °C | Operating temperature max. |

Characteristics

| | |
|---|--|
|  | Radial load |
|  | Axial load in one direction |
|  | Lifetime lubrication, freedom from maintenance |
|  | Grease Lubrication |
|  | Sealed on both sides |