



FAG

7301-B-XL-TVP

Angular contact ball bearing

Schaeffler ID:
0167257860000Angular contact ball bearing 73..-B-XL-
TVP, single row, X-life, plastic cage

X-life

Technical information

**Main Dimensions & Performance Data**

| | | |
|----------|--------------|-----------------------------------|
| d | 12 mm | Bore diameter |
| D | 37 mm | Outside diameter |
| B | 12 mm | Width |
| C_r | 12,200 N | Basic dynamic load rating, radial |
| C_{0r} | 5,300 N | Basic static load rating, radial |
| C_{ur} | 365 N | Fatigue load limit, radial |
| n_G | 28,000 1/min | Limiting speed |
| n_{gr} | 16,300 1/min | Reference speed |
| | 0.06 kg | Weight |

Dimensions

| | | |
|-------------|---------|---|
| r_{min} | 1 mm | Minimum chamfer dimension |
| $r_{1 min}$ | 0.6 mm | Minimum chamfer dimension |
| D_1 | 27.2 mm | Shoulder diameter on outer ring wide side face |
| d_1 | 22.3 mm | Shoulder diameter on inner ring wide side face |
| a | 16 mm | Distance between the apexes of the pressure cones |
| α | 40 ° | Contact angle |

Mounting dimensions

| | | |
|--------------|---------|---|
| $d_{a min}$ | 17.6 mm | Minimum diameter of shaft shoulder |
| $D_{a max}$ | 31.4 mm | Maximum diameter of housing shoulder |
| $D_{b max}$ | 32.8 mm | Maximaler Durchmesser der Gehäuseschulter |
| $r_{a max}$ | 1 mm | Maximum fillet radius of shaft |
| $r_{a1 max}$ | 0.6 mm | Maximum fillet radius of housing |

Temperature range

| | | |
|-----------|--------|----------------------------|
| T_{min} | -30 °C | Operating temperature min. |
| T_{max} | 120 °C | Operating temperature max. |

