

**FAG****X-life****3307-BD-XL-2Z-TVH**

Angular contact ball bearing

Angular contact ball bearing 33.-BD-XL-2Z-TVH, double row, X-life, shields, plastic cage

Technical information

**Your current product variant**

| | | |
|----------------------------------|------|--|
| Design variant | B | Bearing without filling slot |
| Changed internal design | D | D |
| Sealing | 2Z | Non-contact shield on both sides |
| Cage | TVH | Solid cage made of glass-fiber reinforced polyamide PA66 |
| Tolerance class | P6 | Class 6 (ISO 492:2023) |
| Dimensional / heat stabilization | SN | Rings dimensional stabilized up to 120° |
| Lubricant | GA13 | Ball bearing and insert bearing grease |
| Axial internal clearance | CN | Group N (CN) |

Main Dimensions & Performance Data

| | | |
|-----------------|-------------|-----------------------------------|
| d | 35 mm | Bore diameter |
| D | 80 mm | Outside diameter |
| B | 34.9 mm | Width |
| C _r | 55,000 N | Basic dynamic load rating, radial |
| C _{0r} | 36,500 N | Basic static load rating, radial |
| C _{ur} | 2,550 N | Fatigue load limit, radial |
| n _G | 6,800 1/min | Limiting speed |
| n _{gr} | 8,100 1/min | Reference speed |
| m | 0.71 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 44 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 71 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1.5 mm | Maximum fillet radius |







Dimensions

| | | |
|------------|----------|---|
| r_{\min} | 1.5 mm | Minimum chamfer dimension |
| D_1 | 68.92 mm | Shoulder diameter outer ring |
| D_2 | 71.91 mm | Caliber diameter outer ring |
| d_1 | 51.8 mm | Shoulder diameter inner ring |
| d_2 | 49.63 mm | Caliber diameter inner ring |
| a | 48 mm | Distance between the apexes of the pressure cones |
| α | 30 ° | Contact angle |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -20 °C | Operating temperature min. |
| T_{\max} | 120 °C | Operating temperature max. |

Characteristics

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