

FAG

3309-BD-XL-2HRS-TVH

Angular contact ball bearing

Schaeffler ID:
0631320010000

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

X-life

Technical information

**Main Dimensions & Performance Data**

| | | |
|----------|-------------|-----------------------------------|
| d | 45 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 39.7 mm | Width |
| C_r | 72,000 N | Basic dynamic load rating, radial |
| C_{0r} | 54,000 N | Basic static load rating, radial |
| C_{ur} | 3,700 N | Fatigue load limit, radial |
| n_G | 5,500 1/min | Limiting speed |
| | 1.34 kg | Weight |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \min}$ | 54 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 91 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_2 | 87.3 mm | Caliber diameter outer ring |
| d_2 | 63.3 mm | Caliber diameter inner ring |
| a | 57.8 mm | Distance between the apexes of the pressure cones |
| α | 30 ° | Contact angle |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -20 °C | Operating temperature min. |
| T_{\max} | 100 °C | Operating temperature max. |