

**FAG****3310-BD-XL-C3**

Angular contact ball bearing

Angular contact ball bearing 33.-BD-XL,
double row, X-life, steel sheet metal cage**X-life**

Technical information



Your current product variant

| | | |
|----------------------------------|---------|---|
| Design variant | B | Bearing without filling slot |
| Changed internal design | D | D |
| Type of Sealing | Without | Not sealed |
| Cage | JH | Steel sheet metal |
| Tolerance class | P6 | Class6 (P6), better than PN |
| Dimensional / heat stabilization | S0 | Rings dimensional stabilized up to 150° |
| Lubricant | Without | Bearing not greased |
| Axial internal clearance | C3 | Group 3 (C3), bigger than CN |

Main Dimensions & Performance Data

| | | |
|-------------|-------------|-----------------------------------|
| d | 50 mm | Bore diameter |
| D | 110 mm | Outside diameter |
| B | 44,4 mm | Width |
| C_r | 93.000 N | Basic dynamic load rating, radial |
| C_{0r} | 70.000 N | Basic static load rating, radial |
| C_{ur} | 4.850 N | Fatigue load limit, radial |
| n_G | 6.500 1/min | Limiting speed |
| n_{gr} | 6.300 1/min | Reference speed |
| $\approx m$ | 1,79 kg | Weight |



Mounting dimensions

| | | |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 61 mm | Minimum diameter shaft shoulder |
| $D_{a \max}$ | 99 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 2 mm | Maximum fillet radius |

Dimensions

| | | |
|------------|----------|---|
| r_{\min} | 2 mm | Minimum chamfer dimension |
| D_1 | 93,26 mm | Shoulder diameter outer ring |
| d_1 | 71,47 mm | Shoulder diameter inner ring |
| a | 64,2 mm | Distance between the apexes of the pressure cones |
| α | 30 ° | Contact angle |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 150 °C | Operating temperature max. |

Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed