

**FAG****3306-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                                       |
| Sealing                          | Without | Not sealed                              |
| Cage                             | JH      | Steel sheet metal                       |
| Tolerance class                  | P6      | Class 6 (ISO 492:2023)                  |
| Dimensional / heat stabilization | SN      | Rings dimensional stabilized up to 120° |
| Lubricant                        | Without | Bearing not greased                     |
| Axial internal clearance         | C3      | Group 3 (C3), bigger than CN            |

## Main Dimensions &amp; Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 30 mm        | Bore diameter                     |
| D               | 72 mm        | Outside diameter                  |
| B               | 30,2 mm      | Width                             |
| C <sub>r</sub>  | 43.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 29.500 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.050 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 10.400 1/min | Limiting speed                    |
| n <sub>gr</sub> | 8.500 1/min  | Reference speed                   |
| ≈m              | 0,55 kg      | Weight                            |



### Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a \min}$ | 37 mm | Minimum diameter shaft shoulder      |
| $D_{a \max}$ | 65 mm | Maximum diameter of housing shoulder |
| $r_{a \max}$ | 1 mm  | Maximum fillet radius                |

### Dimensions

|            |          |   |
|------------|----------|---|
| $r_{\min}$ | 1,1 mm   | Minimum chamfer dimension                         |
| $D_1$      | 60,47 mm | Shoulder diameter outer ring                      |
| $D_2$      | 63,46 mm | Caliber diameter outer ring                       |
| $d_1$      | 46,25 mm | Shoulder diameter inner ring                      |
| $d_2$      | 44,35 mm | Caliber diameter inner ring                       |
| $a$        | 41,9 mm  | Distance between the apexes of the pressure cones |
| $\alpha$   | 30 °     | Contact angle                                     |

### Temperature range

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

### Characteristics

|   |                              |
|---|------------------------------|
|  | Radial load                  |
|  | Axial load in one direction  |
|  | Axial load in two directions |
|  | Grease Lubrication           |
|  | Oil Lubrication              |
|  | Not sealed                   |