



FAG



X-life

3307-BD-XL-2Z

Angular contact ball bearing

Angular contact ball bearing 33...BD-XL-2Z, double row, X-life, shields, steel sheet metal cage

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |      |                                         |
|----------------------------------|------|-----------------------------------------|
| Design variant                   | B    | Bearing without filling slot            |
| Changed internal design          | D    | D                                       |
| Type of Seal                     | 2Z   | Non-contact shield on both sides        |
| Cage                             | JH   | Steel sheet metal                       |
| 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 <sub>r</sub>  | 55.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 36.500 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.550 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.800 1/min | Limiting speed                    |
| n <sub>gr</sub> | 8.100 1/min | Reference speed                   |
| ≈m              | 0,73 kg     | Masa                              |



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 diamter inner ring                        |
| $a$        | 48 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. |

Właściwości

|                                                                                     |                                     |
|-------------------------------------------------------------------------------------|-------------------------------------|
|  | Obciążenie promieniowe              |
|  | Obciążenie osiowe jednokierunkowe   |
|  | Obciążenie osiowe dwukierunkowe     |
|  | Smarowanie dożywotnie, bezobsługowe |
|  | Smarowanie smarem                   |
|  | Uszczelnienie dwustronne            |