



FAG



3304-BD-XL-2HRS-C3

Angular contact ball bearing

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

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |      |                                         |
|----------------------------------|------|-----------------------------------------|
| Design variant                   | B    | Bearing without filling slot            |
| Changed internal design          | D    | D                                       |
| Sealing                          | 2HRS | Contact seal 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         | C3   | Group 3 (C3), bigger than CN            |

Main Dimensions & Performance Data

|                 |              |                                   |
|-----------------|--------------|-----------------------------------|
| d               | 20 mm        | Bore diameter                     |
| D               | 52 mm        | Outside diameter                  |
| B               | 22,2 mm      | Width                             |
| C <sub>r</sub>  | 24.600 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 15.900 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.100 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 11.000 1/min | Limiting speed                    |
| ≈m              | 0,218 kg     | Masa                              |



Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a\ min}$ | 27 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 45 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1 mm  | Maximum fillet radius                |

Dimensions

|            |          |                                                   |
|------------|----------|---------------------------------------------------|
| $r_{\min}$ | 1,1 mm   | Minimum chamfer dimension                         |
| $D_1$      | 43,98 mm | Shoulder diameter outer ring                      |
| $D_2$      | 46,14 mm | Caliber diameter outer ring                       |
| $d_1$      | 33,52 mm | Shoulder diameter inner ring                      |
| $d_2$      | 31,94 mm | Caliber diamter inner ring                        |
| $a$        | 30,4 mm  | Distance between the apexes of the pressure cones |
| $\alpha$   | 30 °     | Contact angle                                     |

Temperature range

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

Właściwości

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