



FAG



X-life

3304-BD-XL-TVH

Angular contact ball bearing

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

Informacje techniczne



Twoja aktualna wersja produktu

|                                  |         |                                                          |
|----------------------------------|---------|----------------------------------------------------------|
| Design variant                   | B       | Bearing without filling slot                             |
| Changed internal design          | D       | D                                                        |
| Sealing                          | Without | Not sealed                                               |
| Cage                             | TVH     | Solid cage made of glass-fiber reinforced polyamide PA66 |
| 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         | CN      | Group N (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>  | 14.700 1/min | Limiting speed                    |
| n <sub>gr</sub> | 10.400 1/min | Reference speed                   |
| m               | 0,206 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

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

Właściwości

|                                                                                     |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|
|  | Obciążenie promieniowe            |
|  | Obciążenie osiowe jednokierunkowe |
|  | Obciążenie osiowe dwukierunkowe   |
|  | Smarowanie smarem                 |
|  | Smarowanie olejem                 |
|  | Bez uszczelnienia                 |