



FAG



3209-BD-XL-2HRS-TVH-C3

Angular contact ball bearing

Angular contact ball bearing 32...BD-XL-2HRS-TVH, double row, X-life, seals, plastic 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                             | 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                        | GA13 | Ball bearing and insert bearing grease                   |
| Axial internal clearance         | C3   | Group 3 (C3), bigger than CN                             |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 45 mm       | Bore diameter                     |
| D               | 85 mm       | Outside diameter                  |
| B               | 30,2 mm     | Width                             |
| C <sub>r</sub>  | 50.000 N    | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 39.000 N    | Basic static load rating, radial  |
| C <sub>ur</sub> | 2.700 N     | Fatigue load limit, radial        |
| n <sub>G</sub>  | 6.300 1/min | Limiting speed                    |
| ≈m              | 0,627 kg    | Masa                              |



Mounting dimensions

|              |       |                                      |
|--------------|-------|--------------------------------------|
| $d_{a\ min}$ | 52 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 78 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1 mm  | Maximum fillet radius                |

Dimensions

|             |          |                                                   |
|-------------|----------|---------------------------------------------------|
| $r_{\ min}$ | 1,1 mm   | Minimum chamfer dimension                         |
| $D_{\ 1}$   | 75,1 mm  | Shoulder diameter outer ring                      |
| $D_{\ 2}$   | 78,09 mm | Caliber diameter outer ring                       |
| $d_{\ 1}$   | 59,9 mm  | Shoulder diameter inner ring                      |
| $d_{\ 2}$   | 57,73 mm | Caliber diamter inner ring                        |
| $a$         | 50,3 mm  | Distance between the apexes of the pressure cones |
| $\alpha$    | 30 °     | Contact angle                                     |

Temperature range

|             |        |                            |
|-------------|--------|----------------------------|
| $T_{\ min}$ | -30 °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            |