



FAG



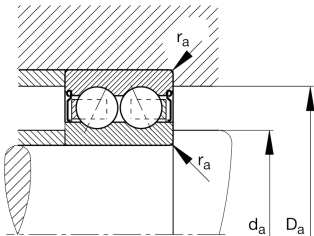
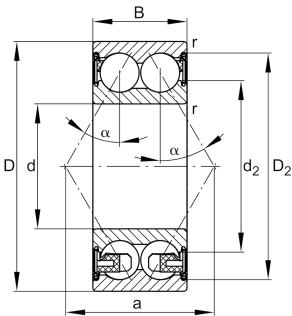
X-life

3205-BD-XL-2Z

Angular contact ball bearing

Angular contact ball bearing 32...-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                                       |
| Sealing                          | 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               | 25 mm        | Bore diameter                     |
| D               | 52 mm        | Outside diameter                  |
| B               | 20,6 mm      | Width                             |
| C <sub>r</sub>  | 22.000 N     | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 15.200 N     | Basic static load rating, radial  |
| C <sub>ur</sub> | 1.050 N      | Fatigue load limit, radial        |
| n <sub>G</sub>  | 10.700 1/min | Limiting speed                    |
| n <sub>gr</sub> | 12.500 1/min | Reference speed                   |
| ≈m              | 0,176 kg     | Masa                              |



Mounting dimensions

|              |         |                                      |
|--------------|---------|--------------------------------------|
| $d_{a\ min}$ | 30,6 mm | Minimum diameter shaft shoulder      |
| $D_{a\ max}$ | 46,4 mm | Maximum diameter of housing shoulder |
| $r_{a\ max}$ | 1 mm    | Maximum fillet radius                |

Dimensions

|             |          |                                                   |
|-------------|----------|---------------------------------------------------|
| $r_{\ min}$ | 1 mm     | Minimum chamfer dimension                         |
| $D_{\ 1}$   | 45,1 mm  | Shoulder diameter outer ring                      |
| $D_{\ 2}$   | 47,62 mm | Caliber diameter outer ring                       |
| $d_{\ 1}$   | 35,8 mm  | Shoulder diameter inner ring                      |
| $d_{\ 2}$   | 34,23 mm | Caliber diamter inner ring                        |
| $a$         | 30,8 mm  | Distance between the apexes of the pressure cones |
| $\alpha$    | 30 °     | Contact angle                                     |

Temperature range

|             |        |                            |
|-------------|--------|----------------------------|
| $T_{\ min}$ | -20 °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            |