



FAG

30244-XL

Tapered roller bearing

Tapered roller bearings 302, main dimensions  
acc. to DIN 720, separable

X-life

Informacje techniczne



Twoja aktualna wersja produktu

|                 |          |                                              |
|-----------------|----------|----------------------------------------------|
| Tolerance class | PN       | Normal (ISO 492:2023)                        |
| Heat treatment  | Standard |                                              |
| Cage            | Standard | Sheet steel cage, window cage, roller-guided |
| Internal design | Standard |                                              |
| Quality level   | XL       | X-life                                       |
| Number of rows  | 1        | Single-row design                            |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 220 mm      | Bore diameter                     |
| D               | 400 mm      | Outside diameter                  |
| B               | 65 mm       | Width, inner ring                 |
| C               | 54 mm       | Width, outer ring                 |
| T               | 72 mm       | Width, total                      |
| C <sub>r</sub>  | 1.120.000 N | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 1.330.000 N | Basic static load rating, radial  |
| C <sub>ur</sub> | 153.000 N   | Fatigue load limit, radial        |
| n <sub>G</sub>  | 2.120 1/min | Limiting speed                    |
| n <sub>gr</sub> | 1.130 1/min | Thermal speed rating              |
| m               | 34,13 kg    | Masa                              |



Mounting dimensions

|         |        |                                      |
|---------|--------|--------------------------------------|
| d a max | 255 mm | Maximum diameter of shaft shoulder   |
| d b min | 237 mm | Minimum diameter of shaft shoulder   |
| D a min | 348 mm | Minimum diameter of housing shoulder |
| D a max | 382 mm | Maximum diameter of housing shoulder |
| D b min | 371 mm | Minimum diameter of housing shoulder |
| C a min | 10 mm  | Minimum axial space                  |
| C b min | 18 mm  | Minimum axial space                  |
| r a max | 5 mm   | Maximum fillet radius of shaft       |
| r b max | 4 mm   | Maximum fillet radius of housing     |

Dimensions

|            |        |                                                   |
|------------|--------|---------------------------------------------------|
| r 1, 2 min | 5 mm   | Minimum chamfer dimension of inner ring back face |
| r 3, 4 min | 4 mm   | Minimum chamfer dimension of outer ring back face |
| a          | 75 mm  | Distance between the apexes of the pressure cones |
| d 1        | 296 mm | Guidance rib diameter of inner ring               |

Temperature range

|       |        |                            |
|-------|--------|----------------------------|
| T min | -30 °C | Operating temperature min. |
| T max | 200 °C | Operating temperature max. |

Calculation factors

|     |      |                                                                                  |
|-----|------|----------------------------------------------------------------------------------|
| e   | 0,42 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y   | 1,43 | Dynamic axial load factor                                                        |
| Y 0 | 0,79 | Static axial load factor                                                         |



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia



Łożysko gabarytowe