



FAG

30316-A

Tapered roller bearing

Tapered roller bearings 303, main dimensions  
acc. to DIN 720, separable

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   | Standard |                                              |
| Number of rows  | 1        | Single-row design                            |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 80 mm       | Bore diameter                     |
| D               | 170 mm      | Outside diameter                  |
| B               | 39 mm       | Width, inner ring                 |
| C               | 33 mm       | Width, outer ring                 |
| T               | 42,5 mm     | Width, total                      |
| C <sub>r</sub>  | 285.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 345.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 39.500 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 4.250 1/min | Limiting speed                    |
| n <sub>gr</sub> | 3.200 1/min | Thermal speed rating              |
| ≈m              | 4,247 kg    | Masa                              |



Mounting dimensions

|                    |        |                                      |
|--------------------|--------|--------------------------------------|
| d <sub>a</sub> max | 102 mm | Maximum diameter of shaft shoulder   |
| d <sub>b</sub> min | 92 mm  | Minimum diameter of shaft shoulder   |
| D <sub>a</sub> min | 148 mm | Minimum diameter of housing shoulder |
| D <sub>a</sub> max | 158 mm | Maximum diameter of housing shoulder |
| D <sub>b</sub> min | 159 mm | Minimum diameter of housing shoulder |
| C <sub>a</sub> min | 5 mm   | Minimum axial space                  |
| C <sub>b</sub> min | 9,5 mm | Minimum axial space                  |
| r <sub>a</sub> max | 3 mm   | Maximum fillet radius of shaft       |
| r <sub>b</sub> max | 2,5 mm | Maximum fillet radius of housing     |

Dimensions

|                       |          |                                                   |
|-----------------------|----------|---------------------------------------------------|
| r <sub>1, 2</sub> min | 3 mm     | Minimum chamfer dimension of inner ring back face |
| r <sub>3, 4</sub> min | 2,5 mm   | Minimum chamfer dimension of outer ring back face |
| a                     | 34 mm    | Distance between the apexes of the pressure cones |
| d <sub>1</sub>        | 121,7 mm | Guidance rib diameter of inner ring               |

Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 120 °C | Operating temperature max. |

Calculation factors

|                |      |                                                                                  |
|----------------|------|----------------------------------------------------------------------------------|
| e              | 0,35 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y              | 1,74 | Dynamic axial load factor                                                        |
| Y <sub>0</sub> | 0,96 | Static axial load factor                                                         |

Additional information

|         |                                                  |
|---------|--------------------------------------------------|
| T2GB080 | Comparative designation to ISO 10317 and ISO 355 |
|---------|--------------------------------------------------|



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia