



FAG

33117 [🔗](#)

Tapered roller bearing

Tapered roller bearings 331, main dimensions  
acc. to DIN 720, separable

Informacje techniczne



Twoja aktualna wersja produktu

|                 |          |                                              |
|-----------------|----------|----------------------------------------------|
| Tolerance class | P6X      | Class 6X (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               | 85 mm       | Bore diameter                     |
| D               | 140 mm      | Outside diameter                  |
| B               | 41 mm       | Width, inner ring                 |
| C               | 32 mm       | Width, outer ring                 |
| T               | 41 mm       | Width, total                      |
| C <sub>r</sub>  | 221.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 350.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 43.500 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 4.750 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2.950 1/min | Thermal speed rating              |
| ≈m              | 2,463 kg    | Masa                              |



### Mounting dimensions

|              |        |                                      |
|--------------|--------|--------------------------------------|
| $d_{a \max}$ | 95 mm  | Maximum diameter of shaft shoulder   |
| $d_{b \min}$ | 95 mm  | Minimum diameter of shaft shoulder   |
| $D_{a \min}$ | 122 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 130 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 135 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 7 mm   | Minimum axial space                  |
| $C_{b \min}$ | 9 mm   | Minimum axial space                  |
| $r_{a \max}$ | 2,5 mm | Maximum fillet radius of shaft       |
| $r_{b \max}$ | 2 mm   | Maximum fillet radius of housing     |

### Dimensions

|                 |          |                                                   |
|-----------------|----------|---------------------------------------------------|
| $r_{1, 2 \min}$ | 2,5 mm   | Minimum chamfer dimension of inner ring back face |
| $r_{3, 4 \min}$ | 2 mm     | Minimum chamfer dimension of outer ring back face |
| $a$             | 33 mm    | Distance between the apexes of the pressure cones |
| $d_1$           | 114,7 mm | Guidance rib diameter of inner ring               |

### Temperature range

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

### Calculation factors

|       |      |                                                                                      |
|-------|------|--------------------------------------------------------------------------------------|
| $e$   | 0,41 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y$   | 1,48 | Dynamic axial load factor                                                            |
| $Y_0$ | 0,81 | Static axial load factor                                                             |

### Additional information

T3DE085

Comparative designation to ISO 10317 and ISO 355



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia