

**FAG****33022**

Tapered roller bearing

Tapered roller bearings 330, main dimensions
acc. to DIN 720, separable

Technical information



Your current product variant

| | | |
|-----------------|----------|--|
| Tolerance class | P6X | Class 6X (ISO 492:2014) |
| 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 | 110 mm | Bore diameter |
| D | 170 mm | Outside diameter |
| B | 47 mm | Width, inner ring |
| C | 37 mm | Width, outer ring |
| T | 47 mm | Width, total |
| C_r | 295.000 N | Basic dynamic load rating, radial |
| C_{0r} | 520.000 N | Basic static load rating, radial |
| C_{ur} | 63.000 N | Fatigue load limit, radial |
| n_G | 3.950 1/min | Limiting speed |
| n_{gr} | 2.750 1/min | Thermal speed rating |
| $\approx m$ | 3,829 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \max}$ | 123 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 120 mm | Minimum diameter of shaft shoulder |
| $D_{a \min}$ | 152 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 160 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 161 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 7 mm | Minimum axial space |
| $C_{b \min}$ | 10 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 | 139,2 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 | 0,29 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y | 2,09 | Dynamic axial load factor |
| Y_0 | 1,15 | Static axial load factor |

Additional information

T2DE110

Comparative designation to ISO 10317 and ISO 355



Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed