

FAG

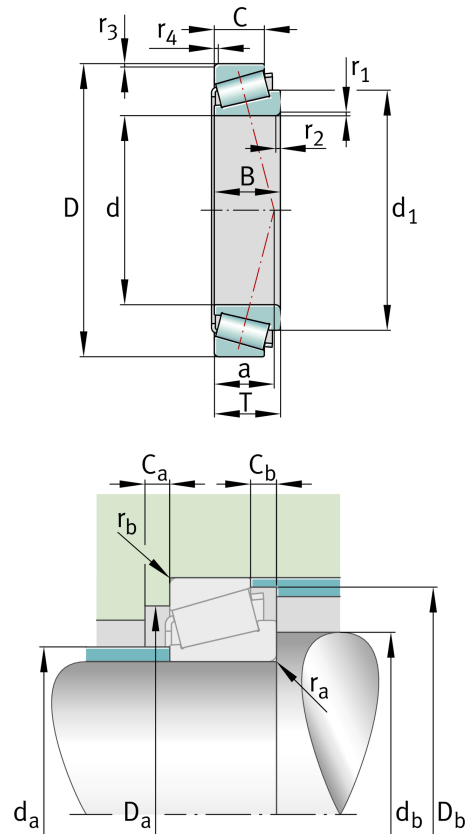
★ 33112

Tapered roller bearing

Schaeffler ID:
0190068450000Tapered roller bearings 331, main
dimensions to DIN ISO 355 / DIN 720,
separable, adjusted or in pairs

★ Preferred product

Technical information



Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 60 mm | Bore diameter |
| D | 100 mm | Outside diameter |
| B | 30 mm | Width, inner ring |
| C | 23 mm | Width, outer ring |
| T | 30 mm | Width, total |
| C_r | 116.000 N | Basic dynamic load rating, radial |
| C_{0r} | 171.000 N | Basic static load rating, radial |
| C_{ur} | 21.900 N | Fatigue load limit, radial |
| n_G | 6.900 1/min | Limiting speed |
| n_{gr} | 3.950 1/min | Thermal speed rating |
| | 0,899 kg | Weight |

Dimensions

| | | |
|-----------------------|---------|---|
| $r_{1,2 \text{ min}}$ | 1,5 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3,4 \text{ min}}$ | 1,5 mm | Minimum chamfer dimension of outer ring back face |
| a | 24 mm | Distance between the apexes of the pressure cones |
| d_1 | 81,9 mm | Guidance rib diameter of inner ring |

Mounting dimensions

| | | |
|---------------------|--------|--------------------------------------|
| $d_{a \text{ max}}$ | 67 mm | Maximum diameter of shaft shoulder |
| $d_{b \text{ min}}$ | 67 mm | Minimum diameter of shaft shoulder |
| $D_{a \text{ min}}$ | 88 mm | Minimum diameter of housing shoulder |
| $D_{a \text{ max}}$ | 93 mm | Maximum diameter of housing shoulder |
| $D_{b \text{ min}}$ | 96 mm | Minimum diameter of housing shoulder |
| $C_{a \text{ min}}$ | 5 mm | Minimum axial space |
| $C_{b \text{ min}}$ | 7 mm | Minimum axial space |
| $r_{a \text{ max}}$ | 1,5 mm | Maximum fillet radius of shaft |
| $r_{b \text{ max}}$ | 1,5 mm | Maximum fillet radius of housing |

Temperature range

| | | |
|------------------|--------|--|
| e | 0,4 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| T _{min} | -30 °C | Operating temperature min. |
| Y | 1,51 | Dynamic axial load factor |
| T _{max} | 120 °C | Operating temperature max. |
| Y ₀ | 0,83 | Static axial load factor |

Additional information

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|---------|--|
| T3CE060 | Comparative designation to ISO 10317 and ISO 355 |
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