



FAG

33108

Tapered roller bearing

Schaeffler ID:
0167136640000

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

Technical information



Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 40 mm | Bore diameter |
| D | 75 mm | Outside diameter |
| B | 26 mm | Width, inner ring |
| C | 20.5 mm | Width, outer ring |
| T | 26 mm | Width, total |
| C_r | 79,000 N | Basic dynamic load rating, radial |
| C_{0r} | 103,000 N | Basic static load rating, radial |
| C_{ur} | 13,100 N | Fatigue load limit, radial |
| n_G | 9,500 1/min | Limiting speed |
| n_{gr} | 5,500 1/min | Thermal speed rating |
| | 0.498 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 | 18 mm | Distance between the apexes of the pressure cones |
| d_1 | 59.2 mm | Guidance rib diameter of inner ring |

Mounting dimensions

| | | |
|---------------------|--------|--------------------------------------|
| $d_{a \text{ max}}$ | 47 mm | Maximum diameter of shaft shoulder |
| $d_{b \text{ min}}$ | 47 mm | Minimum diameter of shaft shoulder |
| $D_{a \text{ min}}$ | 65 mm | Minimum diameter of housing shoulder |
| $D_{a \text{ max}}$ | 68 mm | Maximum diameter of housing shoulder |
| $D_{b \text{ min}}$ | 71 mm | Minimum diameter of housing shoulder |
| $C_{a \text{ min}}$ | 4 mm | Minimum axial space |
| $C_{b \text{ min}}$ | 5.5 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 |

Calculation factors

| | | |
|----------------|---------|--|
| | T2CE040 | Comparative designation to ISO 10317 and ISO 355 |
| e | 0.36 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y | 1.69 | Dynamic axial load factor |
| Y ₀ | 0.93 | Static axial load factor |

Temperature range

| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 120 °C | Operating temperature max. |