



FAG

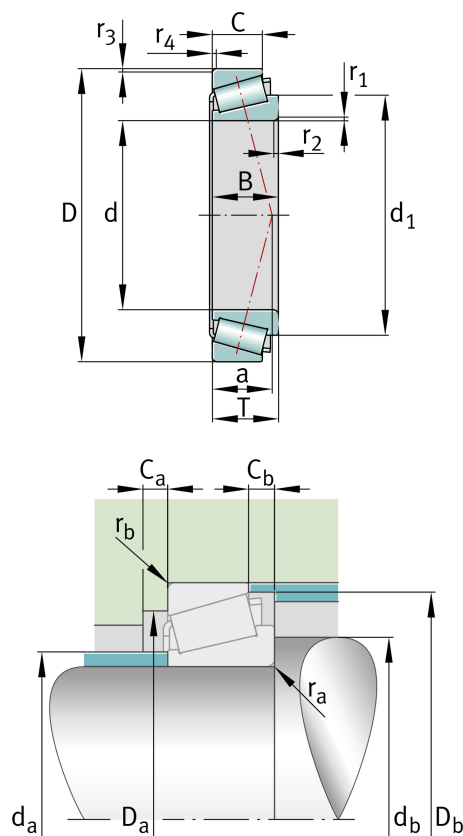
32316-A

Tapered roller bearing

Schaeffler ID:
0167131090000

Tapered roller bearings 323, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 80 mm | Bore diameter |
| D | 170 mm | Outside diameter |
| B | 58 mm | Width, inner ring |
| C | 48 mm | Width, outer ring |
| T | 61.5 mm | Width, total |
| C_r | 400,000 N | Basic dynamic load rating, radial |
| C_{0r} | 530,000 N | Basic static load rating, radial |
| C_{ur} | 65,000 N | Fatigue load limit, radial |
| n_G | 4,150 1/min | Limiting speed |
| n_{gr} | 3,150 1/min | Thermal speed rating |
| | 6.43 kg | Weight |

Dimensions

| | | |
|-----------------------|--------|---|
| $r_{1,2 \text{ min}}$ | 3 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3,4 \text{ min}}$ | 2.5 mm | Minimum chamfer dimension of outer ring back face |
| a | 42 mm | Distance between the apexes of the pressure cones |
| d_1 | 122 mm | Guidance rib diameter of inner ring |

Mounting dimensions

| | | |
|---------------------|---------|--------------------------------------|
| $d_{a \text{ max}}$ | 98 mm | Maximum diameter of shaft shoulder |
| $d_{b \text{ min}}$ | 92 mm | Minimum diameter of shaft shoulder |
| $D_{a \text{ min}}$ | 142 mm | Minimum diameter of housing shoulder |
| $D_{a \text{ max}}$ | 158 mm | Maximum diameter of housing shoulder |
| $D_{b \text{ min}}$ | 159 mm | Minimum diameter of housing shoulder |
| $C_{a \text{ min}}$ | 7 mm | Minimum axial space |
| $C_{b \text{ min}}$ | 13.5 mm | Minimum axial space |
| $r_{a \text{ max}}$ | 3 mm | Maximum fillet radius of shaft |
| $r_{b \text{ max}}$ | 2.5 mm | Maximum fillet radius of housing |

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 ₀ | 0.96 | Static axial load factor |

Temperature range

| | | |
|------------------|---------|--|
| | T2GD080 | Comparative designation to ISO 10317 and ISO 355 |
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 120 °C | Operating temperature max. |