



FAG

30203-A

Tapered roller bearing

Schaeffler ID:
0167104280000

Tapered roller bearings 302, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

Technical information



Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 120 °C | Operating temperature max. |
| | 77.7 g | Weight |

Main Dimensions & Performance Data

| | | |
|----------|--------------|-----------------------------------|
| d | 17 mm | Bore diameter |
| D | 40 mm | Outside diameter |
| B | 12 mm | Width, inner ring |
| C | 11 mm | Width, outer ring |
| T | 13.25 mm | Width, total |
| C_r | 19,200 N | Basic dynamic load rating, radial |
| C_{0r} | 18,700 N | Basic static load rating, radial |
| C_{ur} | 1,940 N | Fatigue load limit, radial |
| n_G | 20,100 1/min | Limiting speed |
| n_{gr} | 11,800 1/min | Thermal speed rating |

Dimensions

| | | |
|----------------|---------|---|
| $r_{1,2 \min}$ | 1 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3,4 \min}$ | 1 mm | Minimum chamfer dimension of outer ring back face |
| a | 10 mm | Distance between the apices of the pressure cones |
| d_1 | 29.1 mm | Guidance rib diameter of inner ring |

Mounting dimensions

| | | |
|--------------|-------|--------------------------------------|
| $d_{a \max}$ | 23 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 23 mm | Minimum diameter of shaft shoulder |
| $D_{a \min}$ | 34 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 34 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 37 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 2 mm | Minimum axial space |
| $C_{b \min}$ | 2 mm | Minimum axial space |
| $r_{a \max}$ | 1 mm | Maximum fillet radius of shaft |
| $r_{b \max}$ | 1 mm | Maximum fillet radius of housing |

Calculation factors

| | | |
|-------|---------|--|
| | T2DB017 | Comparative designation to ISO 10317 and ISO 355 |
| e | 0.35 | Limiting value of F_a/F_r 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 |