



FAG

32040-X-XL

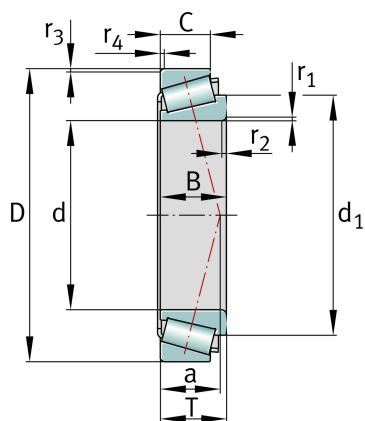
Tapered roller bearing

Schaeffler ID:
0797621900000

Tapered roller bearings 320, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

Technical information



Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 200 mm | Bore diameter |
| D | 310 mm | Outside diameter |
| B | 70 mm | Width, inner ring |
| C | 53 mm | Width, outer ring |
| T | 70 mm | Width, total |
| C_r | 900,000 N | Basic dynamic load rating, radial |
| C_{0r} | 1,380,000 N | Basic static load rating, radial |
| C_{ur} | 179,000 N | Fatigue load limit, radial |
| n_G | 2,500 1/min | Limiting speed |
| n_{gr} | 1,280 1/min | Thermal speed rating |
| | 18.58 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 | 67 mm | Distance between the apexes of the pressure cones |
| d_1 | 254 mm | Guidance rib diameter of inner ring |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \max}$ | 221 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 212 mm | Minimum diameter of shaft shoulder |
| $D_{a \min}$ | 273 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 298 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 297 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 11 mm | Minimum axial space |
| $C_{b \min}$ | 17 mm | Minimum axial space |
| $r_{a \max}$ | 3 mm | Maximum fillet radius of shaft |
| $r_{b \max}$ | 2.5 mm | Maximum fillet radius of housing |

Calculation factors

| | | |
|-------|---------|--|
| | T4FD200 | Comparative designation to ISO 10317 and ISO 355 |
| e | 0.43 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y | 1.39 | Dynamic axial load factor |
| Y_0 | 0.77 | Static axial load factor |

Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |