



FAG

★ 31322-X-XL

Tapered roller bearing

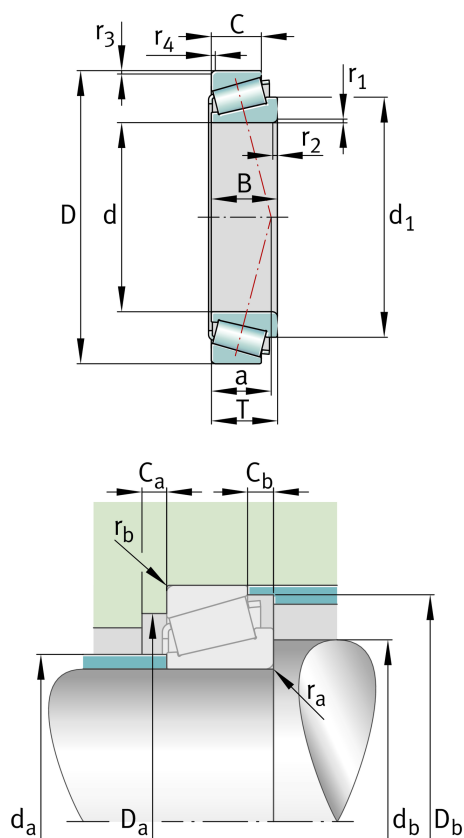
Schaeffler ID:
0770859650000

★ Preferred product

Tapered roller bearings 313, main dimensions to DIN ISO 355 / DIN 720, separable, adjusted or in pairs

X-life

Technical information



Temperature range

| | | |
|------------|----------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 200 °C | Operating temperature max. |
| | 12,06 kg | Weight |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 110 mm | Bore diameter |
| D | 240 mm | Outside diameter |
| B | 57 mm | Width, inner ring |
| C | 38 mm | Width, outer ring |
| T | 63 mm | Width, total |
| C_r | 550.000 N | Basic dynamic load rating, radial |
| C_{0r} | 590.000 N | Basic static load rating, radial |
| C_{ur} | 80.000 N | Fatigue load limit, radial |
| n_G | 3.100 1/min | Limiting speed |
| n_{gr} | 2.250 1/min | Thermal speed rating |

Dimensions

| | | |
|----------------|----------|---|
| $r_{1,2 \min}$ | 4 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3,4 \min}$ | 3 mm | Minimum chamfer dimension of outer ring back face |
| a | 75 mm | Distance between the apexes of the pressure cones |
| d_1 | 176,7 mm | Guidance rib diameter of inner ring |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \max}$ | 135 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 124 mm | Minimum diameter of shaft shoulder |
| $D_{a \min}$ | 188 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 226 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 224 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 7 mm | Minimum axial space |
| $C_{b \min}$ | 25 mm | Minimum axial space |
| $r_{a \max}$ | 4 mm | Maximum fillet radius of shaft |
| $r_{b \max}$ | 3 mm | Maximum fillet radius of housing |

Calculation factors

| | | |
|-------|---------|--|
| | T7GB110 | Comparative designation to ISO 10317 and ISO 355 |
| e | 0,83 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y | 0,73 | Dynamic axial load factor |
| Y_0 | 0,4 | Static axial load factor |