

**FAG****30230-A**

Tapered roller bearing

Schaeffler ID:
0167107700000

Tapered roller bearing

Technical information

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 150 mm | Bore diameter |
| D | 270 mm | Outside diameter |
| B | 45 mm | Width, inner ring |
| C | 38 mm | Width, outer ring |
| T | 49 mm | Width, total |
| C_r | 465.000 N | Basic dynamic load rating, radial |
| C_{0r} | 630.000 N | Basic static load rating, radial |
| C_{ur} | 75.000 N | Fatigue load limit, radial |
| n_G | 2.650 1/min | Limiting speed |
| n_{gr} | 1.880 1/min | Thermal speed rating |
| | 10,9 kg | {Weight} |

Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \max}$ | 175 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 164 mm | Minimum diameter of shaft shoulder |
| $D_{a \min}$ | 234 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 256 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 250 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 9 mm | Minimum axial space |
| $C_{b \min}$ | 11 mm | Minimum axial space |
| $r_{a \max}$ | 4 mm | Maximum fillet radius of shaft |
| $r_{b \max}$ | 3 mm | Maximum fillet radius of housing |

Dimensions

| | | |
|-----------------------|--------|---|
| $r_{1,2 \text{ min}}$ | 4 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3,4 \text{ min}}$ | 3 mm | Minimum chamfer dimension of outer ring back face |
| a | 52 mm | Distance between the apexes of the pressure cones |
| d_1 | 201 mm | Guidance rib diameter of inner ring |

Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0,43 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y | 1,38 | Dynamic axial load factor |
| Y_0 | 0,76 | Static axial load factor |

Additional information

| | | |
|--|---------|--|
| | T4GB150 | Comparative designation to ISO 10317 and ISO 355 |
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