

**FAG****K3586-3525**

Tapered roller bearing

Tapered roller bearings K-Series, in inch sizes, separable

Technical information



Your current product variant

| | | |
|-----------------|----------|--|
| Tolerance class | ABMA4 | Class 4 (ANSI/ABMA 19.2:2013) |
| Heat treatment | Standard | |
| Cage | Standard | Sheet steel cage, window cage, roller-guided |
| Quality level | Standard | |
| Number of rows | 1 | Single-row design |

Main Dimensions & Performance Data

| | | |
|----------|-------------|-----------------------------------|
| d | 45,237 mm | Bore diameter |
| D | 87,313 mm | Outside diameter |
| B | 30,886 mm | Width, inner ring |
| C | 23,812 mm | Width, outer ring |
| T | 30,162 mm | Width, total |
| C_r | 97.000 N | Basic dynamic load rating, radial |
| C_{0r} | 121.000 N | Basic static load rating, radial |
| C_{ur} | 15.200 N | Fatigue load limit, radial |
| n_G | 8.500 1/min | Limiting speed |
| n_{gr} | 6.400 1/min | Thermal speed rating |
| m | 0,78 kg | Weight |



Mounting dimensions

| | | |
|--------------|--------|--------------------------------------|
| $d_{a \max}$ | 52 mm | Maximum diameter of shaft shoulder |
| $d_{b \min}$ | 58 mm | Minimum diameter of shaft shoulder |
| $D_{a \min}$ | 75 mm | Minimum diameter of housing shoulder |
| $D_{a \max}$ | 76 mm | Maximum diameter of housing shoulder |
| $D_{b \min}$ | 81 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 4 mm | Minimum axial space |
| $C_{b \min}$ | 6 mm | Minimum axial space |
| $r_{a \max}$ | 3,6 mm | Maximum fillet radius of shaft |
| $r_{b \max}$ | 3,3 mm | Maximum fillet radius of housing |

Dimensions

| | | |
|-----------------|---------|---|
| $r_{1, 2 \min}$ | 3,6 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3, 4 \min}$ | 3,3 mm | Minimum chamfer dimension of outer ring back face |
| a | 20 mm | Distance between the apexes of the pressure cones |
| d_1 | 64,7 mm | Guidance rib diameter of inner ring |

Temperature range

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

Calculation factors

| | | |
|-------|------|--|
| e | 0,31 | Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y |
| Y | 1,96 | Dynamic axial load factor |
| Y_0 | 1,08 | Static axial load factor |



Characteristics

-  Radial load
-  Axial load in one direction
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed