

**FAG****KHH231649-HH231615** [↗](#)

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 &amp; Performance Data

|          |             |                                   |
|----------|-------------|-----------------------------------|
| d        | 139,7 mm    | Bore diameter                     |
| D        | 295,275 mm  | Outside diameter                  |
| B        | 87,312 mm   | Width, inner ring                 |
| C        | 57,15 mm    | Width, outer ring                 |
| T        | 82,55 mm    | Width, total                      |
| $C_r$    | 830.000 N   | Basic dynamic load rating, radial |
| $C_{0r}$ | 1.120.000 N | Basic static load rating, radial  |
| $C_{ur}$ | 133.000 N   | Fatigue load limit, radial        |
| $n_G$    | 2.450 1/min | Limiting speed                    |
| $n_{gr}$ | 1.850 1/min | Thermal speed rating              |
| $m$      | 24,1 kg     | Weight                            |





### Mounting dimensions

|              |          |                                      |
|--------------|----------|--------------------------------------|
| $d_{a \max}$ | 161 mm   | Maximum diameter of shaft shoulder   |
| $d_{b \min}$ | 177 mm   | Minimum diameter of shaft shoulder   |
| $D_{a \min}$ | 258 mm   | Minimum diameter of housing shoulder |
| $D_{b \min}$ | 263,7 mm | Minimum diameter of housing shoulder |
| $C_{a \min}$ | 9 mm     | Minimum axial space                  |
| $C_{b \min}$ | 19 mm    | Minimum axial space                  |
| $r_{a \max}$ | 9,7 mm   | Maximum fillet radius of shaft       |
| $r_{b \max}$ | 6,4 mm   | Maximum fillet radius of housing     |

### Dimensions

|                 |          |   |
|-----------------|----------|---|
| $r_{1, 2 \min}$ | 9,7 mm   | Minimum chamfer dimension of inner ring back face |
| $r_{3, 4 \min}$ | 6,4 mm   | Minimum chamfer dimension of outer ring back face |
| $a$             | 56 mm    | Distance between the apexes of the pressure cones |
| $d_1$           | 199,1 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

|       |      |  |
|-------|------|--|
| $e$   | 0,32 | Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y |
| $Y$   | 1,88 | Dynamic axial load factor  |
| $Y_0$ | 1,04 | Static axial load factor   |



### Characteristics

---

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