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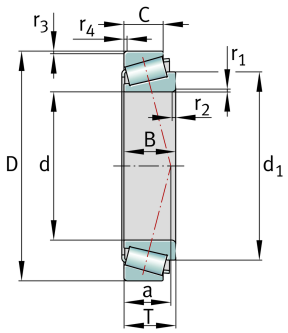
FAG

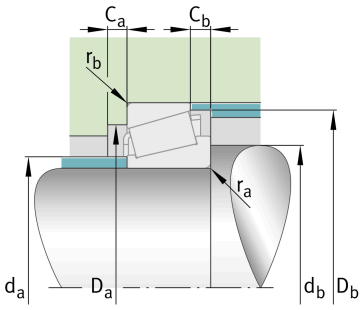
# KL44649-L44610

Tapered roller bearing

Tapered roller bearings K-Series, in inch sizes, separable, adjusted or in pairs

## 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 rolling element rows | 1 | Single-row design |

### Main Dimensions & Performance Data

| | | |
|---|---|---|
| d | 26.988 mm | Bore diameter |
| D | 50.292 mm | Outside diameter |
| B | 14.732 mm | Width, inner ring |
| C | 10.668 mm | Width, outer ring |
| T | 14.224 mm | Width, total |
| $C_r$ | 26,000 N | Basic dynamic load rating, radial |
| $C_{0r}$ | 29,500 N | Basic static load rating, radial |
| $C_{ur}$ | 3,200 N | Fatigue load limit, radial |
| $n_G$ | 15,200 1/min | Limiting speed |
| $n_{\vartheta r}$ | 8,700 1/min | Thermal speed rating |
| ≈m | 115 g | Weight |

## Mounting dimensions

| | | |
|---|---|---|
| $d_{a\ max}$ | 31 mm | Maximum diameter of shaft shoulder |
| $d_{b\ min}$ | 37.5 mm | Minimum diameter of shaft shoulder |
| $D_{a\ min}$ | 44.5 mm | Minimum diameter of housing shoulder |
| $D_{b\ min}$ | 47 mm | Minimum diameter of housing shoulder |
| $C_{a\ min}$ | 2.5 mm | Minimum axial space |
| $C_{b\ min}$ | 3.5 mm | Minimum axial space |
| $r_{a\ max}$ | 3.6 mm | Maximum fillet radius of shaft |
| $r_{b\ max}$ | 1.3 mm | Maximum fillet radius of housing |

## Dimensions

| | | |
|---|---|---|
| $r_{1,\ 2\ min}$ | 3.6 mm | Minimum chamfer dimension of inner ring back face |
| $r_{3,\ 4\ min}$ | 1.3 mm | Minimum chamfer dimension of outer ring back face |
| a | 11 mm | Distance between the apexes of the pressure cones |
| $d_1$ | 40.1 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 | 0.37 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y | 1.6 | Dynamic axial load factor |
| $Y_0$ | 0.88 | Static axial load factor |

## Characteristics

Radial load

Axial load in one direction


Grease Lubrication


Oil Lubrication


Not sealed