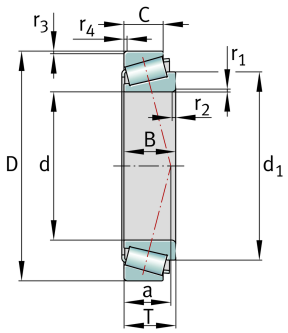
FAG

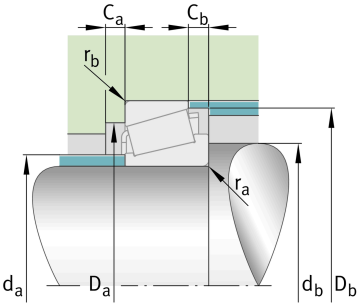
KL44649-L44610

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	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