

**FAG****KM86649-M86610** [↗](#)

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	30,162 mm	Bore diameter
D	64,292 mm	Outside diameter
B	21,433 mm	Width, inner ring
C	16,67 mm	Width, outer ring
T	21,433 mm	Width, total
C_r	52.000 N	Basic dynamic load rating, radial
C_{0r}	67.000 N	Basic static load rating, radial
C_{ur}	8.100 N	Fatigue load limit, radial
n_G	11.500 1/min	Limiting speed
n_{gr}	7.600 1/min	Thermal speed rating
m	0,343 kg	Weight



Mounting dimensions

$d_{a \max}$	38 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	44 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	54 mm	Minimum diameter of housing shoulder
$D_{b \min}$	60 mm	Minimum diameter of housing shoulder
$C_{a \min}$	3 mm	Minimum axial space
$C_{b \min}$	4,5 mm	Minimum axial space
$r_{a \max}$	1,5 mm	Maximum fillet radius of shaft
$r_{b \max}$	1,5 mm	Maximum fillet radius of housing

Dimensions

$r_{1, 2 \min}$	1,5 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4 \min}$	1,5 mm	Minimum chamfer dimension of outer ring back face
a	18 mm	Distance between the apexes of the pressure cones
d_1	50,7 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	0,55	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1,1	Dynamic axial load factor
Y_0	0,6	Static axial load factor



Characteristics

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