

**FAG****KHM220149-HM220110** [↗](#)

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	99,975 mm	Bore diameter
D	156,975 mm	Outside diameter
B	42 mm	Width, inner ring
C	34 mm	Width, outer ring
T	42 mm	Width, total
C_r	250.000 N	Basic dynamic load rating, radial
C_{0r}	410.000 N	Basic static load rating, radial
C_{ur}	49.500 N	Fatigue load limit, radial
n_G	4.250 1/min	Limiting speed
n_{gr}	2.950 1/min	Thermal speed rating
$\approx m$	2,893 kg	Weight





Mounting dimensions

$d_{a \max}$	108 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	122,9 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	142 mm	Minimum diameter of housing shoulder
$D_{a \max}$	146 mm	Maximum diameter of housing shoulder
$D_{b \min}$	151 mm	Minimum diameter of housing shoulder
$C_{a \min}$	5 mm	Minimum axial space
$C_{b \min}$	8 mm	Minimum axial space
$r_{a \max}$	7,9 mm	Maximum fillet radius of shaft
$r_{b \max}$	3,6 mm	Maximum fillet radius of housing

Dimensions

$r_{1, 2 \min}$	7,9 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4 \min}$	3,6 mm	Minimum chamfer dimension of outer ring back face
a	33 mm	Distance between the apexes of the pressure cones
d_1	128,7 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	0,33	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y	1,8	Dynamic axial load factor
Y_0	0,99	Static axial load factor



Characteristics

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