

**FAG****KHM218248-HM218210**

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	89.975 mm	Bore diameter
D	146.975 mm	Outside diameter
B	40 mm	Width, inner ring
C	32.5 mm	Width, outer ring
T	40 mm	Width, total
$C_r$	233,000 N	Basic dynamic load rating, radial
$C_{0r}$	355,000 N	Basic static load rating, radial
$C_{ur}$	43,500 N	Fatigue load limit, radial
$n_G$	4,600 1/min	Limiting speed
$n_{gr}$	3,250 1/min	Thermal speed rating
$m$	2.548 kg	Weight





### Mounting dimensions

$d_{a \max}$	100 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	104 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	130 mm	Minimum diameter of housing shoulder
$D_{a \max}$	136 mm	Maximum diameter of housing shoulder
$D_{b \min}$	140 mm	Minimum diameter of housing shoulder
$C_{a \min}$	7 mm	Minimum axial space
$C_{b \min}$	7.5 mm	Minimum axial space
$r_{a \max}$	7.1 mm	Maximum fillet radius of shaft
$r_{b \max}$	3.6 mm	Maximum fillet radius of housing

### Dimensions

$r_{1, 2 \min}$	7.1 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4 \min}$	3.6 mm	Minimum chamfer dimension of outer ring back face
$a$	31 mm	Distance between the apexes of the pressure cones
$d_1$	118.5 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

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