

**FAG****K99550-99100-XL**

Tapered roller bearing

Tapered roller bearings K-Series, in inch sizes, separable

**X-life**

## 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	XL	X-life
Number of rows	1	Single-row design

## Main Dimensions &amp; Performance Data

d	139,7 mm	Bore diameter
D	254 mm	Outside diameter
B	66,675 mm	Width, inner ring
C	47,625 mm	Width, outer ring
T	66,675 mm	Width, total
$C_r$	720.000 N	Basic dynamic load rating, radial
$C_{0r}$	970.000 N	Basic static load rating, radial
$C_{ur}$	136.000 N	Fatigue load limit, radial
$n_G$	3.200 1/min	Limiting speed
$n_{gr}$	1.830 1/min	Thermal speed rating
$\approx m$	14,2 kg	Weight





### Mounting dimensions

$d_{a \max}$	156 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	170 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	227 mm	Minimum diameter of housing shoulder
$D_{a \max}$	240 mm	Maximum diameter of housing shoulder
$D_{b \min}$	238 mm	Minimum diameter of housing shoulder
$C_{a \min}$	8 mm	Minimum axial space
$C_{b \min}$	13,5 mm	Minimum axial space
$r_{a \max}$	7,1 mm	Maximum fillet radius of shaft
$r_{b \max}$	3,3 mm	Maximum fillet radius of housing

### Dimensions

$r_{1, 2 \min}$	7,1 mm	Minimum chamfer dimension of inner ring back face
$r_{3, 4 \min}$	3,3 mm	Minimum chamfer dimension of outer ring back face
$a$	55 mm	Distance between the apexes of the pressure cones
$d_1$	199 mm	Guidance rib diameter of inner ring

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

### Calculation factors

$e$	0,41	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y$	1,47	Dynamic axial load factor
$Y_0$	0,81	Static axial load factor



### Characteristics

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