

**FAG****K938-932-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 & Performance Data

d	114,3 mm	Bore diameter
D	212,725 mm	Outside diameter
B	66,675 mm	Width, inner ring
C	53,975 mm	Width, outer ring
T	66,675 mm	Width, total
C_r	610.000 N	Basic dynamic load rating, radial
C_{0r}	720.000 N	Basic static load rating, radial
C_{ur}	107.000 N	Fatigue load limit, radial
n_G	4.050 1/min	Limiting speed
n_{gr}	2.700 1/min	Thermal speed rating
$\approx m$	10 kg	Weight





Mounting dimensions

$d_{a \max}$	128 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	141 mm	Minimum diameter of shaft shoulder
$D_{a \min}$	187 mm	Minimum diameter of housing shoulder
$D_{a \max}$	198 mm	Maximum diameter of housing shoulder
$D_{b \min}$	193 mm	Minimum diameter of housing shoulder
$C_{a \min}$	5 mm	Minimum axial space
$C_{b \min}$	10 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	47 mm	Distance between the apexes of the pressure cones
d_1	153,5 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	1,84	Dynamic axial load factor
Y_0	1,01	Static axial load factor



Characteristics

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