





FAG

23144-BE-XL-K-C3

Spherical Roller Bearing

Spherical roller bearings 231...-E1-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Design	BE	With lose center lip ring
Bore type	K	Tapered, taper 1:12
Cage	JPB	Sheet metal cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	220 mm	Bore diameter
D	370 mm	Outside diameter
B	120 mm	Width
C _r	1.860.000 N	Basic dynamic load rating, radial
C _{0r}	2.700.000 N	Basic static load rating, radial
C _{ur}	223.000 N	Fatigue load limit, radial
n _G	1.860 1/min	Limiting speed
n _{gr}	1.080 1/min	Reference speed
≈m	49,05 kg	Masa



Mounting dimensions

$d_{a \min}$	237 mm	Minimum diameter shaft shoulder
$d_{a \max}$	253 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	353 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius
$d_{b \min}$	233 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	10 mm	Minimum cavity width of the sleeve

Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
D_1	323 mm	Bore diameter outer ring
d_2	254,8 mm	Raceway diameter of the inner ring
d_s	9,5 mm	Diameter lubrication hole
n_s	17,7 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,31	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,15	Dynamic axial load factor
Y_2	3,2	Dynamic axial load factor
Y_0	2,1	Static axial load factor

Additional information

H3144X	Adapter sleeve
AH3144	Withdrawal sleeve



Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Smarowanie smarem
-  Smarowanie olejem
-  Bez uszczelnienia
-  Łożysko gabarytowe
-  Nieosiowość statyczna
-  Nieosiowość dynamiczna