





FAG

23140-BE-XL-K-C4 

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	C4 (Group 4)	Internal clearance larger than C3
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	200 mm	Bore diameter
D	340 mm	Outside diameter
B	112 mm	Width
C _r	1.610.000 N	Basic dynamic load rating, radial
C _{0r}	2.270.000 N	Basic static load rating, radial
C _{ur}	193.000 N	Fatigue load limit, radial
n _G	2.040 1/min	Limiting speed
n _{gr}	1.230 1/min	Reference speed
≈m	38,995 kg	Masa



Mounting dimensions

$d_{a \min}$	214 mm	Minimum diameter shaft shoulder
$d_{a \max}$	231 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	326 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius
$d_{b \min}$	212 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	10 mm	Minimum cavity width of the sleeve

Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
D_1	295,8 mm	Bore diameter outer ring
d_2	230,4 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	0,32	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,1	Dynamic axial load factor
Y_2	3,13	Dynamic axial load factor
Y_0	2,06	Static axial load factor

Additional information

H3140	Adapter sleeve
AH3140	Withdrawal sleeve



Właściwości

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