





FAG

23156-BE-XL-K 

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	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

Main Dimensions & Performance Data

d	280 mm	Bore diameter
D	460 mm	Outside diameter
B	146 mm	Width
C _r	2.750.000 N	Basic dynamic load rating, radial
C _{0r}	4.200.000 N	Basic static load rating, radial
C _{ur}	325.000 N	Fatigue load limit, radial
n _G	1.420 1/min	Limiting speed
n _{gr}	790 1/min	Reference speed
≈m	90,555 kg	Masa



Mounting dimensions

$d_{a \min}$	300 mm	Minimum diameter shaft shoulder
$d_{a \max}$	321 mm	Maximum diameter of shaft shoulder
$D_{a \max}$	440 mm	Maximum diameter of housing shoulder
$r_{a \max}$	4 mm	Maximum recess radius
$d_{b \min}$	296 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	12 mm	Minimum cavity width of the sleeve

Dimensions

$r_{\min}$	5 mm	Minimum chamfer dimension
D_1	403,4 mm	Bore diameter outer ring
d_2	321,4 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	0,31	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,21	Dynamic axial load factor
Y_2	3,29	Dynamic axial load factor
Y_0	2,16	Static axial load factor

Additional information

H3156X	Adapter sleeve
AH3156G	Withdrawal sleeve



Właściwości

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