



FAG

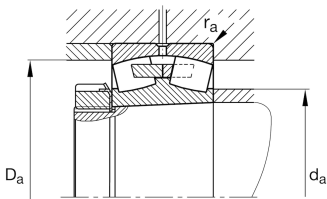
23120-E1A-XL-K-M-C4

Spherical Roller Bearing

Spherical roller bearings 231...-E1A-K, main dimensions to DIN 635-2, with tapered bore, taper 1:12

X-life

Informacje techniczne



Twoja aktualna wersja produktu

Design	E1A	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	M	Brass Cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication feature	Standard	
Special material	Standard	

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	165 mm	Outside diameter
B	52 mm	Width
C _r	450.000 N	Basic dynamic load rating, radial
C _{0r}	570.000 N	Basic static load rating, radial
C _{ur}	54.000 N	Fatigue load limit, radial
n _G	4.000 1/min	Limiting speed
n _{gr}	2.750 1/min	Reference speed

≈m	4,258 kg	Masa
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Mounting dimensions

$d_{a \min}$	111 mm	Minimum diameter shaft shoulder
$D_{a \max}$	154 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius
$d_{a \max}$	115 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	107 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	7 mm	Minimum cavity width of the sleeve

Dimensions

$r_{\min}$	2 mm	Minimum chamfer dimension
D_1	146,3 mm	Bore diameter outer ring
d_s	3,2 mm	Diameter lubrication hole
n_s	6,5 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,28	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,37	Dynamic axial load factor
Y_2	3,53	Dynamic axial load factor
Y_0	2,32	Static axial load factor

Additional information

H3120	Adapter sleeve
AHX3120	Withdrawal sleeve



Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Obciążenie osiowe dwukierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia



Nieosiowość statyczna



Nieosiowość dynamiczna