

**FAG****22320-E1A-XL-K-M-C3**

Spherical Roller Bearing

Spherical roller bearing 223...-E1A-XL-K-M,
symmetric 2 outer ribs**X-life**

Technical information



Your current product variant

Design	E1A	Without central rip
Bore type	K	Tapered, taper 1:12
Cage	M	Brass Cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & Performance Data

d	100 mm	Bore diameter
D	215 mm	Outside diameter
B	73 mm	Width
C _r	810.000 N	Basic dynamic load rating, radial
C _{0r}	920.000 N	Basic static load rating, radial
C _{ur}	77.000 N	Fatigue load limit, radial
n _G	3.300 1/min	Limiting speed
n _{gr}	2.380 1/min	Reference speed
m	12,864 kg	Weight



Mounting dimensions

$d_{a \min}$	114 mm	Minimum diameter shaft shoulder
$D_{a \max}$	201 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius
$d_{a \max}$	129 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	110 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	7 mm	Minimum cavity width of the sleeve

Dimensions

r_{\min}	3 mm	Minimum chamfer dimension
D_1	184,7 mm	Bore diameter outer ring
d_2	130,2 mm	Raceway diameter of the inner ring
d_s	6,3 mm	Diameter lubrication hole
n_s	12,2 mm	Width of lubricating groove

Temperature range

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

Calculation factors

e	0,33	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,03	Dynamic axial load factor
Y_2	3,02	Dynamic axial load factor
Y_0	1,98	Static axial load factor

Additional information

H2320	Adapter sleeve
AHX2320	Withdrawal sleeve