



FAG

**22319-E1A-XL-K-M**

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	CN (Group N)	Normal internal clearance
Relubrication feature	Standard	

## Main Dimensions &amp; Performance Data

d	95 mm	Bore diameter
D	200 mm	Outside diameter
B	67 mm	Width
C <sub>r</sub>	670.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	700.000 N	Basic static load rating, radial
C <sub>ur</sub>	61.000 N	Fatigue load limit, radial
n <sub>G</sub>	3.700 1/min	Limiting speed
n <sub>gr</sub>	2.800 1/min	Reference speed
m	9,77 kg	Weight



### Mounting dimensions

$d_{a \min}$	109 mm	Minimum diameter shaft shoulder
$D_{a \max}$	186 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius
$d_{a \max}$	115 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	105 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
$D_1$	171,2 mm	Bore diameter outer ring
$d_2$	116 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

H2319	Adapter sleeve
AHX2319	Withdrawal sleeve