



FAG

**22330-E1A-XL-M**

Spherical Roller Bearing

Spherical roller bearing 223..-E1A-XL-M,  
symmetric 2 outer ribs

X-life

## Technical information



## Your current product variant

Design	E1A	Without central rip
Bore type	Z	Cylindrical
Cage	M	Brass Cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	150 mm	Bore diameter
D	320 mm	Outside diameter
B	108 mm	Width
$C_r$	1.640.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.850.000 N	Basic static load rating, radial
$C_{ur}$	151.000 N	Fatigue load limit, radial
$n_G$	2.290 1/min	Limiting speed
$n_{gr}$	1.520 1/min	Reference speed
$\approx m$	42,3 kg	Weight

## Mounting dimensions

$d_{a \min}$	167 mm	Minimum diameter shaft shoulder
$D_{a \max}$	303 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius



### Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
$D_1$	273,2 mm	Bore diameter outer ring
$d_2$	185,3 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

$e$	0,33	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,02	Dynamic axial load factor
$Y_2$	3	Dynamic axial load factor
$Y_0$	1,97	Static axial load factor