



FAG

**22318-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	Standard	

## Main Dimensions &amp; Performance Data

d	90 mm	Bore diameter
D	190 mm	Outside diameter
B	64 mm	Width
$C_r$	610.000 N	Basic dynamic load rating, radial
$C_{0r}$	630.000 N	Basic static load rating, radial
$C_{ur}$	56.000 N	Fatigue load limit, radial
$n_G$	3.850 1/min	Limiting speed
$n_{gr}$	3.000 1/min	Reference speed
$\approx m$	8,501 kg	Weight

## Mounting dimensions

$d_{a \min}$	104 mm	Minimum diameter shaft shoulder
$D_{a \max}$	176 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,5 mm	Maximum recess radius



### Dimensions

$r_{\min}$	3 mm	Minimum chamfer dimension
$D_1$	162,5 mm	Bore diameter outer ring
$d_2$	110,2 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