

**FAG****22311-E1A-XL-M-C3**

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	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	120 mm	Outside diameter
B	43 mm	Width
C_r	265.000 N	Basic dynamic load rating, radial
C_{0r}	260.000 N	Basic static load rating, radial
C_{ur}	24.600 N	Fatigue load limit, radial
n_G	5.800 1/min	Limiting speed
n_{gr}	4.500 1/min	Reference speed
$\approx m$	2,332 kg	Weight

**Mounting dimensions**

$d_{a \min}$	66 mm	Minimum diameter shaft shoulder
$D_{a \max}$	109 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius



Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	101,4 mm	Bore diameter outer ring
d_2	68,9 mm	Raceway diameter of the inner 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	0,36	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	1,89	Dynamic axial load factor
Y_2	2,81	Dynamic axial load factor
Y_0	1,84	Static axial load factor