



FAG

22224-E1A-XL-M-C3

Spherical Roller Bearing

Spherical roller bearing 222...-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 facility	Standard	

Main Dimensions & Performance Data

d	120 mm	Bore diameter
D	215 mm	Outside diameter
B	58 mm	Width
C_r	640.000 N	Basic dynamic load rating, radial
C_{0r}	740.000 N	Basic static load rating, radial
C_{ur}	70.000 N	Fatigue load limit, radial
n_G	3.650 1/min	Limiting speed
n_{gr}	2.700 1/min	Reference speed
$\approx m$	8,85 kg	Weight



Mounting dimensions

$d_{a \min}$	132 mm	Minimum diameter shaft shoulder
$D_{a \max}$	203 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2,1 mm	Maximum recess radius



Dimensions

r_{\min}	2,1 mm	Minimum chamfer dimension
D_1	192 mm	Bore diameter outer ring
d_2	141,9 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	0,25	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,71	Dynamic axial load factor
Y_2	4,04	Dynamic axial load factor
Y_0	2,65	Static axial load factor

Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Static angular error and misalignment