



FAG

22228-E1A-XL-M

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	CN (Group N)	Normal internal clearance
Relubrication	Standard	

Main Dimensions & Performance Data

d	140 mm	Bore diameter
D	250 mm	Outside diameter
B	68 mm	Width
C_r	870.000 N	Basic dynamic load rating, radial
C_{0r}	1.040.000 N	Basic static load rating, radial
C_{ur}	100.000 N	Fatigue load limit, radial
n_G	3.150 1/min	Limiting speed
n_{gr}	2.250 1/min	Reference speed
$\approx m$	14,111 kg	Weight



Mounting dimensions

$d_{a \min}$	154 mm	Minimum diameter shaft shoulder
$D_{a \max}$	236 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	223,1 mm	Bore diameter outer ring
d_2	164,9 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	2,67	Dynamic axial load factor
Y_2	3,97	Dynamic axial load factor
Y_0	2,61	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