



FAG

22216-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	80 mm	Bore diameter
D	140 mm	Outside diameter
B	33 mm	Width
C_r	250.000 N	Basic dynamic load rating, radial
C_{0r}	270.000 N	Basic static load rating, radial
C_{ur}	34.500 N	Fatigue load limit, radial
n_G	6.200 1/min	Limiting speed
n_{gr}	3.550 1/min	Reference speed
$\approx m$	2,072 kg	Weight



Mounting dimensions

$d_{a \min}$	91 mm	Minimum diameter shaft shoulder
$D_{a \max}$	129 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius



Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	126,8 mm	Bore diameter outer ring
d_2	94,9 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	0,22	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	3,14	Dynamic axial load factor
Y_2	4,67	Dynamic axial load factor
Y_0	3,07	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