



FAG

23222-E1-XL-TVPB-C3

Spherical Roller Bearing

Spherical roller bearings 232...-E1, main dimensions to DIN 635-2

X-life

Technical information



Your current product variant

Design	E1	Without central rip
Bore type	Z	Cylindrical
Cage	TVPB	Plastic cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication	Standard	

Main Dimensions & Performance Data

d	110 mm	Bore diameter
D	200 mm	Outside diameter
B	69,8 mm	Width
C _r	710.000 N	Basic dynamic load rating, radial
C _{0r}	870.000 N	Basic static load rating, radial
C _{ur}	73.000 N	Fatigue load limit, radial
n _G	3.250 1/min	Limiting speed
n _{gr}	2.100 1/min	Reference speed
≈m	9,103 kg	Weight



Mounting dimensions

$d_{a \min}$	122 mm	Minimum diameter shaft shoulder
$D_{a \max}$	188 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	172,7 mm	Bore diameter outer ring
d_2	129,1 mm	Raceway diameter of the inner ring
d_s	4,8 mm	Diameter lubrication hole
n_s	9,5 mm	Width of lubricating groove

Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	120 °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	2,06	Dynamic axial load factor
Y_2	3,06	Dynamic axial load factor
Y_0	2,01	Static axial load factor



Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Static angular error and misalignment
-  Dynamic angular error and misalignment