



FAG

22218-E1-XL-C4

Spherical Roller Bearing

Spherical roller bearings 222...-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	JPA	Sheet metal cage
Radial internal clearance	C4 (Group 4)	Internal clearance larger than C3
Relubrication	Standard	

Main Dimensions & Performance Data

d	90 mm	Bore diameter
D	160 mm	Outside diameter
B	40 mm	Width
C_r	345.000 N	Basic dynamic load rating, radial
C_{0r}	375.000 N	Basic static load rating, radial
C_{ur}	43.500 N	Fatigue load limit, radial
n_G	5.200 1/min	Limiting speed
n_{gr}	3.400 1/min	Reference speed
$\approx m$	3,335 kg	Weight

Mounting dimensions

$d_{a \min}$	101 mm	Minimum diameter shaft shoulder
$D_{a \max}$	149 mm	Maximum diameter of housing shoulder
$r_{a \max}$	2 mm	Maximum recess radius



Dimensions

r_{\min}	2 mm	Minimum chamfer dimension
D_1	143,9 mm	Bore diameter outer ring
d_2	106,1 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	0,23	Limiting value of F_a/F_r for the applicability of diff. Values of factors X and Y
Y_1	2,9	Dynamic axial load factor
Y_2	4,31	Dynamic axial load factor
Y_0	2,83	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