



FAG

**22328-E1-XL**

## Spherical Roller Bearing

Spherical roller bearings 223...-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	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	



## Main Dimensions &amp; Performance Data

d	140 mm	Bore diameter
D	300 mm	Outside diameter
B	102 mm	Width
$C_r$	1.460.000 N	Basic dynamic load rating, radial
$C_{0r}$	1.630.000 N	Basic static load rating, radial
$C_{ur}$	135.000 N	Fatigue load limit, radial
$n_G$	2.420 1/min	Limiting speed
$n_{gr}$	1.660 1/min	Reference speed
$\approx m$	35 kg	Weight



### Mounting dimensions

$d_{a \min}$	157 mm	Minimum diameter shaft shoulder
$D_{a \max}$	283 mm	Maximum diameter of housing shoulder
$r_{a \max}$	3 mm	Maximum recess radius

### Dimensions

$r_{\min}$	4 mm	Minimum chamfer dimension
$D_1$	255,7 mm	Bore diameter outer ring
$d_2$	173,5 mm	Raceway diameter of the inner ring
$d_s$	9,5 mm	Diameter lubrication hole
$n_s$	17,7 mm	Width of lubricating groove

### Temperature range

$T_{\min}$	-30 °C	Operating temperature min.
$T_{\max}$	200 °C	Operating temperature max.

### Calculation factors

$e$	0,34	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2	Dynamic axial load factor
$Y_2$	2,98	Dynamic axial load factor
$Y_0$	1,96	Static axial load factor



### Characteristics

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-  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