



FAG

**22356-BEA-XL-MB1**

Spherical Roller Bearing

Spherical roller bearing 223..-BEA-XL-MB1, symmetric 2 outer ribs with rib washer

X-life

## Technical information

**Your current product variant**

Design	BEA	With lose center lip ring
Bore type	Z	Cylindrical
Cage	MB1	Solid brass cage
Radial internal clearance	CN (Group N)	Normal internal clearance
Relubrication facility	Standard	

**Main Dimensions & Performance Data**

d	280 mm	Bore diameter
D	580 mm	Outside diameter
B	175 mm	Width
$C_r$	4.150.000 N	Basic dynamic load rating, radial
$C_{0r}$	5.300.000 N	Basic static load rating, radial
$C_{ur}$	405.000 N	Fatigue load limit, radial
$n_G$	1.280 1/min	Limiting speed
$n_{gr}$	670 1/min	Reference speed
$\approx m$	220,5 kg	Weight

**Mounting dimensions**

$d_{a \min}$	306 mm	Minimum diameter shaft shoulder
$D_{a \max}$	554 mm	Maximum diameter of housing shoulder
$r_{a \max}$	5 mm	Maximum recess radius



### Dimensions

$r_{min}$	6 mm	Minimum chamfer dimension
$D_1$	495,5 mm	Bore diameter outer ring
$d_s$	12,5 mm	Diameter lubrication hole
$n_s$	23,5 mm	Width of lubricating groove










### Temperature range

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

### Calculation factors

$e$	0,31	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	2,18	Dynamic axial load factor
$Y_2$	3,24	Dynamic axial load factor
$Y_0$	2,13	Static axial load factor

### Characteristics

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