

**FAG****239/500-K-MB-C3**

## Spherical Roller Bearing

Spherical roller bearing 239..-K-MB,  
symmetric 3 ribs

## Technical information



## Your current product variant

Bore type	K	Tapered, taper 1:12
Cage	MB	Solid brass cage
Radial internal clearance	C3 (Group 3)	Internal clearance larger than CN
Relubrication facility	Standard	

## Main Dimensions &amp; Performance Data

d	500 mm	Bore diameter
D	670 mm	Outside diameter
B	128 mm	Width
$C_r$	2.600.000 N	Basic dynamic load rating, radial
$C_{0r}$	6.300.000 N	Basic static load rating, radial
$C_{ur}$	410.000 N	Fatigue load limit, radial
$n_G$	990 1/min	Limiting speed
$n_{gr}$	540 1/min	Reference speed
$\approx m$	124,5 kg	Weight

## Mounting dimensions

$d_{a \min}$	518 mm	Minimum diameter shaft shoulder
$D_{a \max}$	652 mm	Maximum diameter of housing shoulder
$r_{a \max}$	4 mm	Maximum recess radius
$d_{a \max}$	543 mm	Maximum diameter of shaft shoulder
$d_{b \min}$	516 mm	Minimum cavity diameter of the sleeve
$B_{a \min}$	18 mm	Minimum cavity width of the sleeve



### Dimensions

$r_{\min}$	5 mm	Minimum chamfer dimension
$D_1$	619,3 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

$e$	0,17	Limiting value of $F_a/F_r$ for the applicability of diff. Values of factors X and Y
$Y_1$	3,9	Dynamic axial load factor
$Y_2$	5,81	Dynamic axial load factor
$Y_0$	3,81	Static axial load factor

### Additional information

H39/500-HG	Adapter sleeve
AH39/500-H	Withdrawal sleeve



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing



Static angular error and misalignment



Dynamic angular error and misalignment