



FAG

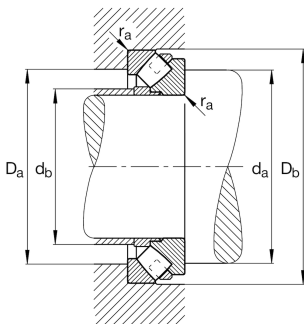
**294/500-E1-XL-MB**

Axial spherical roller bearing

Axial spherical roller bearing 294..-E1-XL-MB,  
with flanging ring

X-life

## Technical information



## Your current product variant

Heat treatment	Standard	Standard
Cage	MB	Solid brass cage
Locating feature, housing washer	Without	
Handling thread holes	Without	
Constricted width and inclination variation	Standard	
Test certificate	Without	

## Main Dimensions &amp; Performance Data

d	500 mm	Bore diameter
D	870 mm	Outside diameter
T	224 mm	Section height
C <sub>a</sub>	11.600.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	40.000.000 N	Basic static load rating, axial
C <sub>ua</sub>	3.500.000 N	Fatigue load limit, axial
n <sub>G</sub>	700 1/min	Limiting speed
n <sub>gr</sub>	330 1/min	Reference speed
≈m	545,5 kg	Weight



### Mounting dimensions

$d_{a \min}$	685 mm	Minimum diameter shaft shoulder
$D_{a \max}$	765 mm	Maximum diameter of housing shoulder
$D_{b \min}$	886 mm	Minimum bore diameter housing
$d_{b \max}$	539 mm	Maximum distance sleeve
$r_{a \max}$	8 mm	Maximum recess radius

### Dimensions

$D_1$	648 mm	Bore diameter housing washer
$d_1$	800 mm	Rip diameter shaft washer
$r_{\min}$	9,5 mm	Minimum chamfer dimension
$T_1$	110 mm	Height of the housing washer
$T_2$	86,6 mm	Height of shaft washer
$T_3$	147 mm	Height of the shaft washer
$T_4$	216 mm	Height of shaft washer, inc. lip ring
A	290 mm	Distance of the center point

### Temperature range

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



### Characteristics

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