



FAG

294/560-E1-XL-MB-THI [↗](#)

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	THI	Handling thread holes, shaft washer
Constricted width and inclination variation	Standard	
Test certificate	Without	

Main Dimensions & Performance Data

d	560 mm	Bore diameter
D	980 mm	Outside diameter
T	250 mm	Section height
C _a	14.600.000 N	Basic dynamic load rating, axial
C _{0a}	51.000.000 N	Basic static load rating, axial
C _{ua}	4.300.000 N	Fatigue load limit, axial
n _G	610 1/min	Limiting speed
n _{gr}	285 1/min	Reference speed
≈m	778 kg	Weight



Mounting dimensions

$d_{a \min}$	770 mm	Minimum diameter shaft shoulder
$D_{a \max}$	860 mm	Maximum diameter of housing shoulder
$D_{b \min}$	997 mm	Minimum bore diameter housing
$d_{b \max}$	602 mm	Maximum distance sleeve
$r_{a \max}$	10 mm	Maximum recess radius

Dimensions

D_1	727 mm	Bore diameter housing washer
d_1	900 mm	Rip diameter shaft washer
r_{\min}	12 mm	Minimum chamfer dimension
T_1	122 mm	Height of the housing washer
T_2	99 mm	Height of shaft washer
T_3	168 mm	Height of the shaft washer
T_4	241 mm	Height of shaft washer, inc. lip ring
A	328 mm	Distance of the center point

Temperature range

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



Characteristics



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