



FAG

294/530-E1-XL-N1-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	N1	Locating feature, housing washer
Handling thread holes	Without	
Constricted width and inclination variation	Standard	
Test certificate	Without	

Main Dimensions & Performance Data

d	530 mm	Bore diameter
D	920 mm	Outside diameter
T	236 mm	Section height
C_a	12.700.000 N	Basic dynamic load rating, axial
C_{0a}	44.500.000 N	Basic static load rating, axial
C_{ua}	3.850.000 N	Fatigue load limit, axial
n_G	650 1/min	Limiting speed
n_{gr}	305 1/min	Reference speed
$\approx m$	640,5 kg	Weight



Mounting dimensions

$d_{a \min}$	725 mm	Minimum diameter shaft shoulder
$D_{a \max}$	810 mm	Maximum diameter of housing shoulder
$D_{b \min}$	937 mm	Minimum bore diameter housing
$d_{b \max}$	570 mm	Maximum distance sleeve
$r_{a \max}$	8 mm	Maximum recess radius

Dimensions

D_1	686 mm	Bore diameter housing washer
d_1	845 mm	Rip diameter shaft washer
r_{\min}	9,5 mm	Minimum chamfer dimension
T_1	116 mm	Height of the housing washer
T_2	89 mm	Height of shaft washer
T_3	156 mm	Height of the shaft washer
T_4	228 mm	Height of shaft washer, inc. lip ring
A	308 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