



FAG

29416-E1-XL

Axial spherical roller bearing

Axial spherical roller bearing 294..-E1-XL, no flanging ring

X-life

Technical information



Your current product variant

Heat treatment	Standard	Standard
Locating feature, housing washer	Without	
Cage	JP	Sheet metal cage
Handling thread holes	Without	
Constricted width and inclination variation	Standard	
Test certificate	Without	

Main Dimensions & Performance Data

d	80 mm	Bore diameter
D	170 mm	Outside diameter
T	54 mm	Height
C _a	720.000 N	Basic dynamic load rating, axial
C _{0a}	1.720.000 N	Basic static load rating, axial
C _{ua}	199.000 N	Fatigue load limit, axial
n _G	4.350 1/min	Limiting speed
n _{gr}	2.140 1/min	Reference speed
≈m	5,32 kg	Weight



Mounting dimensions

$d_{a \min}$	125 mm	Minimum diameter shaft shoulder
$D_{a \max}$	141 mm	Maximum diameter of housing shoulder
$D_{b \min}$	173 mm	Minimum bore diameter housing
$d_{b \max}$	88 mm	Maximum distance sleeve
$r_{a \max}$	2,1 mm	Maximum recess radius

Dimensions

D_1	112,5 mm	Bore diameter housing washer
d_1	150,9 mm	Rip diameter shaft washer
r_{\min}	2,1 mm	Minimum chamfer dimension
T_1	26,5 mm	Height of the housing washer
T_3	35 mm	Height of the shaft washer
T_5	48,5 mm	Distance shaft washer - cage
A	50 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
	Static angular error and misalignment
	Dynamic angular error and misalignment