



FAG

21307-E1-XL-TVPB

Spherical Roller Bearing

X-life

Technical information

Your current product variant

Cage	TVPB	Plastic cage
Radial internal clearance	CN (Group N)	Normal internal clearance

Main Dimensions & Performance Data

d	35 mm	Bore diameter
D	80 mm	Outside diameter
B	21 mm	Width
C _r	83.000 N	Basic dynamic load rating, radial
C _{0r}	74.000 N	Basic static load rating, radial
C _{ur}	8.300 N	Fatigue load limit, radial
n _G	10.900 1/min	Limiting speed
n _{gr}	6.800 1/min	Reference speed
≈m	0,497 kg	Weight

Mounting dimensions

d _{a min}	44 mm	Minimum diameter shaft shoulder
D _{a max}	71 mm	Maximum diameter of housing shoulder
r _{a max}	1,5 mm	Maximum recess radius



Dimensions

r _{min}	1,5 mm	Minimum chamfer dimension
D ₁	66,6 mm	Bore diameter outer ring
d ₂	47,4 mm	Raceway diameter of the inner ring

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.

Calculation factors

e	0,26	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,55	Dynamic axial load factor
Y ₂	3,8	Dynamic axial load factor
Y ₀	2,5	Static axial load factor