



FAG

21307-E1-XL-TVPB

Spherical roller bearing

Schaeffler ID:
0190001970000Spherical roller bearings 213..-E1, main
dimensions to DIN 635-2

X-life

Technical information

**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
	0.497 kg	Weight

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

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

Additional information

e	0.26	Limiting value of F_a/F_r 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

Temperature range

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