

**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 <sub>r</sub>	83.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	74.000 N	Basic static load rating, radial
C <sub>ur</sub>	8.300 N	Fatigue load limit, radial
n <sub>G</sub>	10.900 1/min	Limiting speed
n <sub>gr</sub>	6.800 1/min	Reference speed
m	0,497 kg	Weight

**Mounting dimensions**

d <sub>a min</sub>	44 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	71 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	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 $F_a/F_r$ 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