

**FAG****21314-E1-XL**

Spherical roller bearing

Schaeffler ID:  
0224679800000Spherical roller bearings 213..-E1, main  
dimensions to DIN 635-2**X-life**

## Technical information

**Main Dimensions & Performance Data**

d	70 mm	Bore diameter
D	150 mm	Outside diameter
B	35 mm	Width
C <sub>r</sub>	250.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	270.000 N	Basic static load rating, radial
C <sub>ur</sub>	34.500 N	Fatigue load limit, radial
n <sub>G</sub>	6.200 1/min	Limiting speed
n <sub>gr</sub>	3.950 1/min	Reference speed
	3,062 kg	Weight

**Additional information**

r <sub>min</sub>	2,1 mm	Minimum chamfer dimension
D <sub>1</sub>	126,2 mm	Bore diameter outer ring
d <sub>2</sub>	94,9 mm	Raceway diameter of the inner ring
d <sub>s</sub>	3,2 mm	Diameter lubrication hole
n <sub>s</sub>	6,5 mm	Width of lubricating groove

**Mounting dimensions**

d <sub>a min</sub>	82 mm	Minimum diameter shaft shoulder
D <sub>a max</sub>	138 mm	Maximum diameter of housing shoulder
r <sub>a max</sub>	2,1 mm	Maximum recess radius

**Calculation factors**

e	0,22	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y <sub>1</sub>	3,14	Dynamic axial load factor
Y <sub>2</sub>	4,67	Dynamic axial load factor
Y <sub>0</sub>	3,07	Static axial load factor

**Temperature range**

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	200 °C	Operating temperature max.