

FAG

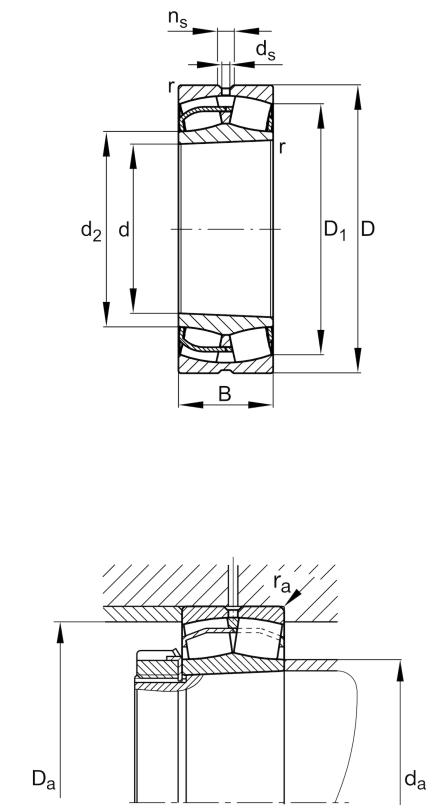
24134-BE-XL-K30
Spherical roller bearing

Schaeffler ID:
0636548900000

Spherical roller bearings 241...-BE-K30,
main dimensions to DIN 635-2, with
tapered bore, taper 1:30

X-life

Technical information



Main Dimensions & Performance Data

d	170 mm	Bore diameter
D	280 mm	Outside diameter
B	109 mm	Width
C _r	1.260.000 N	Basic dynamic load rating, radial
C _{0r}	1.900.000 N	Basic static load rating, radial
C _{ur}	184.000 N	Fatigue load limit, radial
n _G	2.110 1/min	Limiting speed
n _{gr}	1.060 1/min	Reference speed
	25,803 kg	Weight

Mounting dimensions

d _{a min}	182 mm	Minimum diameter shaft shoulder
D _{a max}	268 mm	Maximum diameter of housing shoulder
r _{a max}	2,1 mm	Maximum recess radius

Dimensions

r _{min}	2,1 mm	Minimum chamfer dimension
D ₁	240 mm	Bore diameter outer ring
d ₂	194,1 mm	Raceway diameter of the inner ring
d _s	4,8 mm	Diameter lubrication hole
n _s	9,5 mm	Width of lubricating groove

Temperature range

T _{min}	-30 °C	Operating temperature min.
T _{max}	200 °C	Operating temperature max.

Calculation factors		
e	0,36	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	1,9	Dynamic axial load factor
Y ₂	2,83	Dynamic axial load factor
Y ₀	1,86	Static axial load factor
Additional information		
AH24134		Withdrawal sleeve