

FAG

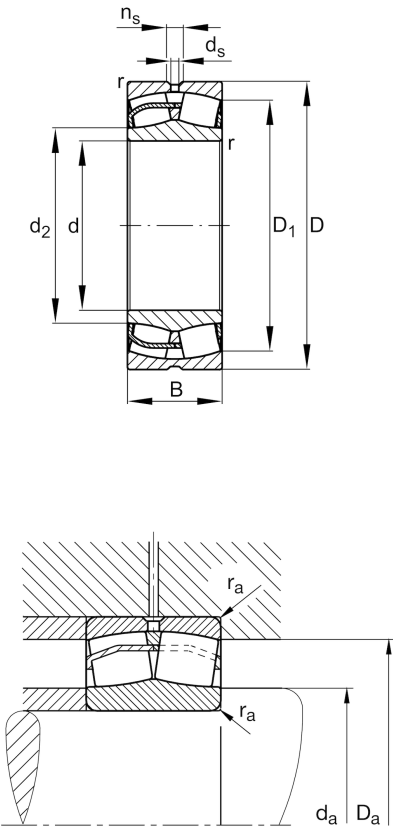
23144-BE-XL-C4
Spherical Roller Bearing

Schaeffler ID:
0604435960040

Spherical roller bearing 231...-BE-XL,
symmetric with rib washer

X-life

Technical information



Main Dimensions & Performance Data

d	220 mm	Bore diameter
D	370 mm	Outside diameter
B	120 mm	Width
C _r	1.860.000 N	Basic dynamic load rating, radial
C _{0r}	2.700.000 N	Basic static load rating, radial
C _{ur}	223.000 N	Fatigue load limit, radial
n _G	1.860 1/min	Limiting speed
n _{gr}	1.080 1/min	Reference speed
≈m	50,61 kg	Weight

Mounting dimensions

d _{a min}	237 mm	Minimum diameter shaft shoulder
D _{a max}	353 mm	Maximum diameter of housing shoulder
r _{a max}	3 mm	Maximum recess radius

Dimensions

r _{min}	4 mm	Minimum chamfer dimension
D ₁	323 mm	Bore diameter outer ring
d ₂	254,8 mm	Raceway diameter of the inner ring
d _s	9,5 mm	Diameter lubrication hole
n _s	17,7 mm	Width of lubricating groove

Temperature range

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

Calculation factors		
e	0,31	Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y
Y ₁	2,15	Dynamic axial load factor
Y ₂	3,2	Dynamic axial load factor
Y ₀	2,1	Static axial load factor